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**DUTCH BOY / INTERNATIONAL HARVESTER SITE
PERIMETER AIR MONITORING DURING DEMOLITION**

Draft Report

Project Site:
**Dutch Boy/International Harvester Site
S. Peoria St. and W. 120th St.
Chicago, Illinois**

Prepared for:
**City of Chicago
Department of Environment
Chicago, Illinois**

Prepared by:
**Harza Environmental Services, Inc.
Chicago, Illinois**

August 12, 1996

August 12, 1996

Mr. Kevin Stanciel
City of Chicago
Department of Environment
Commissioner's Office
25th Floor
30 North LaSalle Street
Chicago, Illinois 60602-2575

Subject: Dutch Boy / International Harvester Site
Perimeter Air Monitoring During Demolition

Dear Mr. Stanciel:

Please find enclosed the subject draft report. Feel free to call me at (312) 831-3812 or Rudy Angelucci at (312) 831-3835 if we can be of further assistance. Thank you for the opportunity to work with you on this project.

Very truly yours,



Robert P. Kewer
Project Manager

RPK/SPH/sph
enclosure

Harza Environmental Services, Inc.

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TABLE OF CONTENTS

1.0 Executive Summary	1
2.0 Introduction	2
2.1 Project Description	2
2.2 Site Description	2
2.3 Chemicals of Concern	2
2.4 Project Personnel	3
3.0 Sampling Methodology	4
3.1 Lead Sampling	4
3.2 Respirable Dust Monitoring and Sampling	5
4.0 Discussion of Findings	6
4.1 Lead	6
4.2 Respirable Dust	6
5.0 Conclusions	7

TABLES

Table 1:	Laboratory Results for Lead
Table 2:	Laboratory Results for Respirable Dust
Table 3:	Real-Time Monitoring Ranges for Respirable Dust

FIGURES

Figure 1:	Dutch Boy Site Plan
Figure 2:	International Harvester Site Plan

APPENDICES

Appendix A:	Daily Result Summaries
Appendix B:	Laboratory Results and Real-Time Monitoring Records
Appendix C:	Telephone Log; Notification of Lead Action Level

1.0 EXECUTIVE SUMMARY

Harza Environmental Services, Inc. (Harza) was retained by The City of Chicago (the City) to provide environmental services at the Dutch Boy and International Harvester sites during demolition activities. The demolition project undertaken by the City included:

- Demolition and removal of the remnant mill building at the Dutch Boy site;
- Demolition and removal of the smokestack at the International Harvester site; and
- Air quality monitoring during all demolition activities.

Harza performed the air quality monitoring, which included air monitoring and air sampling for particulates during demolition at both sites, and air sampling for lead at the Dutch Boy site.

Demolition activities began on Tuesday, April 30, 1996, and ended on Thursday, May 23, 1996. Four monitoring stations were set up daily during this period. One station was located upwind of the demolition activities, and three stations were located downwind. Each station contained:

- One real-time monitor;
- One pump with filter for lead;
- One pump with cyclone and filter for respirable dust.

Samples were analyzed by American Medical Laboratories, Inc. (AML), of Chantilly, Virginia. AML is a laboratory accredited by the American Industrial Hygiene Association (AIHA), and participant in proficiency programs provided by the National Institute of Occupational Safety and Health (NIOSH).

Harza developed and recommended voluntary 'action levels', which were adopted by the City and implemented on this project. These voluntary action levels were identified as half of the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL). Therefore, the voluntary action levels for this project were:

Respirable Dust:	2.5 milligrams per cubic meter (mg/m ³)
Lead (Dutch Boy site only):	25 micrograms per cubic meter (µg/m ³)

Lead concentrations exceeded the voluntary action level only once, on Thursday, May 2, 1996. This sample, taken downwind of the Dutch Boy mill building, yielded a concentration of 26.1 µg/m³. This level exceeds the established voluntary action level of 25 µg/m³ for the site, but was still below the OSHA PEL of 50 µg/m³. At no other time was the voluntary action level for lead exceeded.

During the course of demolition, no respirable dust levels recorded by the real-time monitors or in laboratory results for samples were observed to exceed the voluntary action level at either site.

All air sample results for lead, and all air sample results and real-time monitoring recordings for respirable dust, were below OSHA PELs.

2.0 INTRODUCTION

2.1 Project Description

Harza Environmental Services, Inc. (Harza) was retained by The City of Chicago (the City) to provide environmental services at the Dutch Boy and International Harvester sites during demolition activities. The demolition project undertaken by the City included:

- Demolition and removal of the remnant mill building at the Dutch Boy site;
- Demolition and removal of the smokestack at the International Harvester site; and
- Air quality monitoring during all demolition activities.

Harza performed the air quality monitoring, which included air monitoring and air sampling for particulates during demolition at both sites, and air sampling for lead at the Dutch Boy site.

2.2 Site Description

The Dutch Boy site occupies about 3½ acres at the southwest corner of South Peoria and 120th Street in the City of Chicago, Illinois (Figure 1). The International Harvester site occupies about 21 acres immediately west of the Dutch Boy site (Figure 2). Both are abandoned and partially demolished industrial facilities.

The Dutch Boy site was a lead and lead-based paint manufacturing facility which operated between 1894 and 1980. The only standing structure, which was demolished during this project, was the concrete and steel skeleton of a three story former mill building. Other areas contain pavements, foundations and other remnants of loading docks and buildings, piles of debris, and underground facilities such as basements, pipes and possible underground storage tanks.

The International Harvester site was a former heavy machine manufacturing facility which operated between 1903 and 1983. Most of the buildings on the site were demolished in 1983, and piles of debris are present from the demolition. An 80-foot high smokestack, which was the most significant structure still remaining at the site, was demolished during this project.

2.3 Chemicals of Concern

Based on results of previous investigations, lead was determined to be the principal contaminant of concern at the Dutch Boy Site during demolition activities. Site areas immediately surrounding the mill building where lead has been found were protected by steel plates during the work so that the soils would not be disturbed, thus mitigating concerns that the lead from these soils would migrate off-site in dust. Respirable dust levels were also a concern during demolition at both the Dutch Boy and International Harvester sites.

2.4 Project personnel

Project personnel included the following:

City of Chicago:	Project Manager	Kevin Staniel
Harza:	Project Manager	Robert P. Kewer
	Lead Engineer	Rodolfo Angelucci
	Site Manager/Safety Officer	Stephen Hempel
	Health & Safety Consultant	Atsushi Fujii, CIH

The air monitoring was conducted by environmental engineers, Mr. Stephen Hempel and Mr. Rodolfo Angelucci, of Harza. Mr. Hempel and Mr. Angelucci have B.S. degrees in Civil and Environmental Engineering, and have extensive experience with air quality projects.

All samples were analyzed by American Medical Laboratories, Inc. (AML), of Chantilly, Virginia. AML is a laboratory accredited by the American Industrial Hygiene Association (AIHA), and participant in proficiency programs provided by the National Institute of Occupational Safety and Health (NIOSH). Analysis results are summarized in the tables presented in Section 4.0. Daily result summaries are presented in Appendix A, and laboratory reports from AML are provided in Appendix B.

3.0 SAMPLING METHODOLOGY

Background air samples were collected by Harza personnel on Sunday, April 28 and analyzed in the laboratory for respirable dust and lead. The background samples represented site conditions before any demolition work started. Demolition activities began on Tuesday, April 30, 1996, and ended on Thursday, May 23, 1996. Additional background samples were taken on Wednesday, June 12, 1996, following all demolition activities.

During each day of demolition, Harza personnel arrived on-site to set up sampling and monitoring equipment while the demolition crew mobilized. A pole-mounted meteorological station, which provided wind direction and speed, was erected each morning to allow proper selection of air monitoring stations. One air monitoring station was located upwind of demolition activities and three were located downwind. To the extent possible, monitors were located to allow visual access to the digital readings by interested third parties. The instruments were demobilized each night and reinstalled each morning.

Air samples collected were sent via express shipper to AML approximately every other day. Each sample was provided with a unique sample number which was recorded along with the date and time collected, location and other relevant sample information. Request for analysis forms accompanied each shipment to the laboratory.

3.2.1 Lead Sampling

The voluntary action level for lead was established as $25 \mu\text{g}/\text{m}^3$, which is half of the OSHA Permissible Exposure Limit (PEL). PELs represent levels of exposure to hazards, which must not be exceeded on a job-site. PELs are published and enforced by OSHA as legal standards. In the event that this voluntary action level (half of the OSHA PEL) was exceeded, Harza was responsible for notifying appropriate personnel, as specified by the City.

Lead air samples were collected on 37-mm mixed cellulose ester (MCE) filter cassettes using MSA air pumps. The pumps were set at a flow rate of approximately 2.4 liters per minute. Pumps were left in place for at least 3.5 hours to allow for sufficient air volume to pass through the filters. If the wind direction changed during the day, the pumps were relocated after at least 3.5 hours.

If steady rainfall occurred at the site, the sampling equipment was removed from service to avoid damaging the pumps or filters. In such conditions dust levels are minimal due to the precipitation. When weather conditions remained constant at the site, the sampling and monitoring equipment was left in place throughout the day. The cassettes were capped at the conclusion of the sampling and forwarded to AML for analysis.

The cassettes were capped at the conclusion of the sampling and forwarded to AML for analysis. The analysis to determine the presence of lead is performed by flame atomic absorption spectrophotometry techniques using NIOSH method 7082.

3.2.2 Respirable Dust Monitoring and Sampling

The voluntary action level for respirable dust was identified as 2.5 mg/m³, which is also half of the OSHA PEL. In the event that this voluntary action level was exceeded, Harza was responsible for notifying appropriate personnel.

Real-time monitor readings for particulates were recorded at least hourly and at any other time when visible dust was generated. The manual readings were used to determine whether voluntary action levels were being exceeded. The specific real-time monitors used were Model PDM-3, made by MIE, Inc. in Bedford, Massachusetts.

Respirable dust filter samples will be collected on pre-weighted, 37-mm PVC filter cassettes using MSA air pumps fitted with Gillian cyclones. The flow rate was set at 1.7 liters per minute. Pumps were left in place for at least 3.5 hours to allow for sufficient air volume to pass through the filters. If the wind direction changed during the day, the pumps were relocated after at least 3.5 hours.

If steady rainfall occurred at the site, the sampling and monitoring equipment was removed from service to avoid damaging the pumps, filters, and the moisture-sensitive real-time monitors. In such conditions, however, dust levels are minimal due to the precipitation. When weather conditions remained constant at the site, the sampling and monitoring equipment was left in place throughout the day. The cassettes were capped at the conclusion of the sampling and forwarded to AML for analysis.

4.0 DISCUSSION OF FINDINGS

4.1 Lead

Lead concentrations exceeded the voluntary action level on Thursday, May 2, 1996. This sample, taken downwind of the Dutch Boy mill building, yielded a concentration of $26.1 \mu\text{g}/\text{m}^3$. This level exceeds the established voluntary action level of $25 \mu\text{g}/\text{m}^3$ for the site, however, was well below the OSHA PEL of $50 \mu\text{g}/\text{m}^3$. Harza notified the appropriate personnel, as specified by the City, immediately following the receipt of the laboratory results which showed lead levels exceeding voluntary action levels. Documentation of the notification action, in the form of a telephone log, is provided as Appendix C.

At no other time was the voluntary action level for lead exceeded. The highest lead concentrations detected coincide with downwind sampling during demolition of the Northeast corner and the South side of the mill building.

Table 1 presents the laboratory results for all the lead samples taken. The one sample that exceeded the voluntary action level is shown in bold. The numbers in parentheses represent the number of samples taken. Results are shown only for the samples that exhibited concentrations above the detection limit, unless all samples on the same line were below the detection limit, in which case 'N.D.' is shown.

4.2 Respirable Dust

During the course of demolition, no respirable dust levels recorded by the real-time monitors were observed to exceed the voluntary action level at either site. Similarly, no laboratory results for respirable dust samples exceeded the voluntary action level at either site. The highest levels of visual dust occurred during the demolition of the smokestack at the International Harvester site. The dust created when the smokestack fell dissipated in approximately two minutes, and the samples taken during the event showed dust concentrations well below the voluntary action level.

Table 2 presents the laboratory results for all the respirable dust samples taken. The numbers in parentheses represent the number of samples taken. Results are shown only for the samples that exhibited concentrations above the detection limit, unless all samples on the same line were below the detection limit, in which case 'N.D.' is shown.

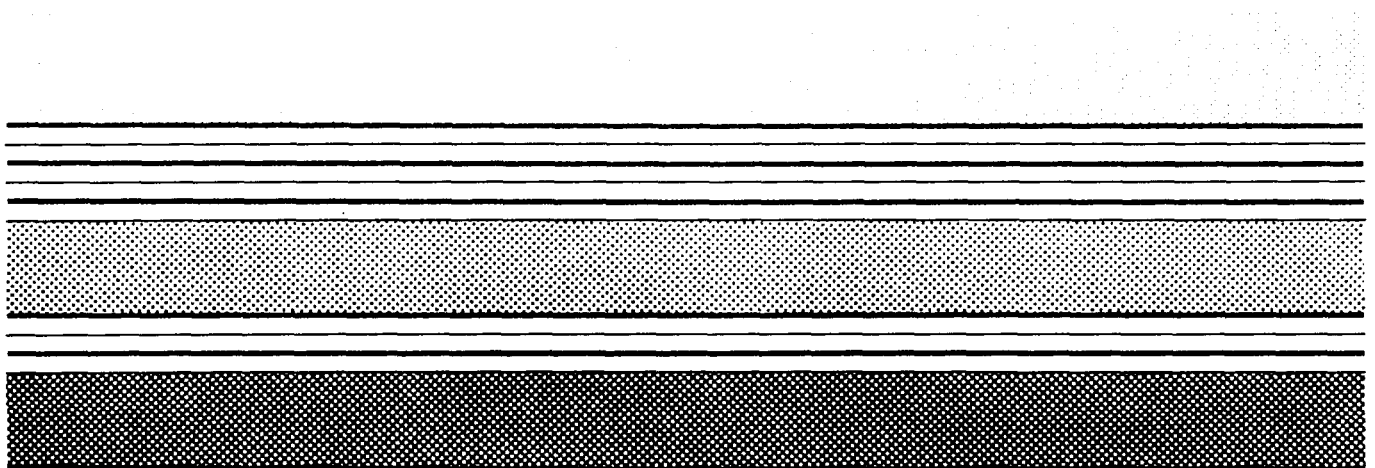
Table 3 presents the daily ranges for the real-time monitor recordings. It should be noted that during very humid or 'foggy' conditions, the monitors tended to register readings that were consistently higher than expected. This was due to detection of interference in the light-sensing instrument caused by moisture in the air.

5.0 CONCLUSION

Air monitoring for lead and particulates was performed during demolition activities at the Dutch Boy and International Harvester sites. Demolition activities began on Tuesday, April 30, 1996, and ended on Thursday, May 23, 1996.

The air monitoring program consisted of continuous real-time monitoring for respirable dust levels and approximately 10 to 20 filter samples for respirable dust and lead per day. Lead concentrations exceeded the established voluntary action level for the site in only one filter sample during the 4-week demolition period. Since the established voluntary lead action level for the project was identified as half the OSHA PEL, this sample result was still within the acceptable range according to OSHA. All other air sample results for lead and respirable dust, as well as real-time monitoring respirable dust levels, were found to be below both the voluntary action levels for the project and OSHA PELs.

TABLES



The image shows a series of horizontal lines and shaded bands, likely representing a table structure or a decorative element. The bands are arranged in a sequence, with some having a fine dot pattern and others being solid black. The lines are thin and black, separating the bands. The overall appearance is that of a stylized, abstract representation of a table or a set of data rows.

TABLE 1
Laboratory Results for Lead

Sampling Day, Activity and Location	Lead Concentration $\mu\text{g}/\text{m}^3$
Sunday, April 28 - Background Sampling at Dutch Boy (4)	N.D.
Tuesday, April 30 - Setup and Demolition at Dutch Boy, Downwind (3)	N.D.
Tuesday, April 30 - Setup and Demolition at Dutch Boy, Upwind (1)	N.D.
Wednesday, May 1 - Demolition at Dutch Boy, Downwind (3)	5.5
Wednesday, May 1 - Demolition at Dutch Boy, Upwind (1)	N.D.
Thursday, May 2 - Demolition at Dutch Boy, Downwind (3)	26.1, 3.8
Thursday, May 2 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Morning, May 3 - Demolition at Dutch Boy, Downwind (3)	8.7, 19, 2.5
Friday Morning, May 3 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Afternoon, May 3 - Demolition at Dutch Boy, Downwind (3)	8.9, 5.1
Friday Afternoon, May 3 - Demolition at Dutch Boy, Upwind (1)	N.D.
Saturday, May 4 - Demolition at Dutch Boy, Downwind (3)	17, 16, 5.3
Saturday, May 4 - Demolition at Dutch Boy, Upwind (1)	N.D.
Monday, May 6 - Demolition at Dutch Boy, Downwind (3)	2.8, 11, 12
Monday, May 6 - Demolition at Dutch Boy, Upwind (1)	N.D.
Tuesday, May 7 - Demolition at Dutch Boy, Downwind (3)	2.1
Tuesday, May 7 - Demolition at Dutch Boy, Upwind (1)	N.D.
Wednesday, May 8 - Demolition at Dutch Boy, Downwind (3)	2.7, 1.4
Wednesday, May 8 - Demolition at Dutch Boy, Upwind (1)	N.D.
Thursday Morning, May 9 - Demolition at Dutch Boy, Downwind (3)	N.D.
Thursday Morning, May 9 - Demolition at Dutch Boy, Upwind (1)	N.D.
Thursday Afternoon, May 9 - Demolition at Dutch Boy, Downwind (3)	N.D.
Thursday Afternoon, May 9 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Morning, May 10 - Demolition at Dutch Boy, Downwind (3)	7.1
Friday Morning, May 10 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Afternoon, May 10 - Demolition at Dutch Boy (0)	N.A.
Saturday Morning, May 11 - Demolition at International Harvester, Downwind (4)	N.D.
Saturday Afternoon, May 11 - Demolition at Dutch Boy, Downwind (3)	N.D.
Saturday Afternoon, May 11 - Demolition at Dutch Boy, Upwind (1)	N.D.
Monday, May 13 - Demolition at Dutch Boy, Downwind (3)	N.D.
Monday, May 13 - Demolition at Dutch Boy, Upwind (1)	N.D.

TABLE 1 (Continued)
Laboratory Results for Lead

Sampling Day, Activity and Location	Lead Concentration $\mu\text{g}/\text{m}^3$
Tuesday, May 14 - Demolition at Dutch Boy, Downwind (3)	N.D.
Tuesday, May 14 - Demolition at Dutch Boy, Upwind (1)	N.D.
Wednesday, May 15 - Demolition at Dutch Boy, Downwind (3)	N.D.
Wednesday, May 15 - Demolition at Dutch Boy, Upwind (1)	N.D.
Thursday, May 16 - Demolition at Dutch Boy, Downwind (3)	N.D.
Thursday, May 16 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday, May 17 - Demolition at Dutch Boy, Downwind (3)	1.7
Friday, May 17 - Demolition at Dutch Boy, Upwind (1)	18.1
Saturday, May 18 - Demolition at Dutch Boy, Downwind (3)	2.5, 3.5
Saturday, May 18 - Demolition at Dutch Boy, Upwind (1)	N.D.
Monday, May 20 - Demolition at Dutch Boy, Downwind (3)	5.5, 2.1, 2.5
Monday, May 20 - Demolition at Dutch Boy, Upwind (1)	1.3
Tuesday, May 21 - Demolition at Dutch Boy, Downwind (3)	2.1
Tuesday, May 21 - Demolition at Dutch Boy, Upwind (1)	N.D.
Wednesday, May 22 - Demolition at Dutch Boy, Downwind (4)	4.4
Wednesday, May 22 - Demolition at Dutch Boy, Upwind (0)	N.A.
Thursday, May 23 - Demolition at Dutch Boy (0)	N.A.
Wednesday, June 12 - Background Sampling at Dutch Boy (4)	N.D.

- Numbers in parentheses represent the number of samples collected.
- $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- The voluntary action level for lead on this project is $25 \mu\text{g}/\text{m}^3$. Results which exceed this level are shown in bold.
- The OSHA PEL for lead is $50 \mu\text{g}/\text{m}^3$.
- N.D. All samples analyzed were below quantitation limits.
- N.A. Not Applicable.
- Laboratory Analysis performed by American Medical Laboratories, Inc.

TABLE 2
Laboratory Results for Respirable Dust

Sampling Day, Activity and Location	Respirable Dust Concentration mg/m ³
Sunday, April 28 - Baseline Sampling at Dutch Boy (4)	0.048
Tuesday, April 30 - Setup and Demolition at Dutch Boy, Downwind (3)	0.039, 0.055
Tuesday, April 30 - Setup and Demolition at Dutch Boy, Upwind (1)	0.030
Wednesday, May 1 - Demolition at Dutch Boy, Downwind (3)	0.084, 0.119, 0.012
Wednesday, May 1 - Demolition at Dutch Boy, Upwind (1)	0.030
Thursday, May 2 - Demolition at Dutch Boy, Downwind (3)	0.146, 0.017, 0.029
Thursday, May 2 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Morning, May 3 - Demolition at Dutch Boy, Downwind (3)	0.14, 0.169
Friday Morning, May 3 - Demolition at Dutch Boy, Upwind (1)	0.017
Friday Afternoon, May 3 - Demolition at Dutch Boy, Downwind (3)	0.048, 0.072, 0.048
Friday Afternoon, May 3 - Demolition at Dutch Boy, Upwind (1)	N.D.
Saturday, May 4 - Demolition at Dutch Boy, Downwind (3)	0.074, 0.170, 0.052
Saturday, May 4 - Demolition at Dutch Boy, Upwind (1)	0.029
Monday, May 6 - Demolition at Dutch Boy, Downwind (3)	0.078, 0.028, 0.073
Monday, May 6 - Demolition at Dutch Boy, Upwind (1)	0.023
Tuesday, May 7 - Demolition at Dutch Boy, Downwind (3)	0.013
Tuesday, May 7 - Demolition at Dutch Boy, Upwind (1)	N.D.
Wednesday, May 8 - Demolition at Dutch Boy, Downwind (3)	1.44, 0.052, 0.035
Wednesday, May 8 - Demolition at Dutch Boy, Upwind (1)	0.105
Thursday Morning, May 9 - Demolition at Dutch Boy, Downwind (3)	0.099, 0.041, 0.064
Thursday Morning, May 9 - Demolition at Dutch Boy, Upwind (1)	0.080
Thursday Afternoon, May 9 - Demolition at Dutch Boy, Downwind (3)	0.19, 0.17
Thursday Afternoon, May 9 - Demolition at Dutch Boy, Upwind (1)	0.053
Friday Morning, May 10 - Demolition at Dutch Boy, Downwind (3)	2.35, 0.031
Friday Morning, May 10 - Demolition at Dutch Boy, Upwind (1)	0.092
Friday Afternoon, May 10 - Demolition at Dutch Boy (0)	N.A.
Saturday Morning, May 11 - Demolition at International Harvester, Downwind (4)	0.702, 0.063
Saturday Afternoon, May 11 - Demolition at Dutch Boy, Downwind (3)	0.046, 0.084, 0.024
Saturday Afternoon, May 11 - Demolition at Dutch Boy, Upwind (1)	0.046
Monday, May 13 - Demolition at Dutch Boy, Downwind (3)	0.057, 0.080, 0.039
Monday, May 13 - Demolition at Dutch Boy, Upwind (1)	0.043
Tuesday, May 14 - Demolition at Dutch Boy, Downwind (3)	0.062, 0.036, 0.038
Tuesday, May 14 - Demolition at Dutch Boy, Upwind (1)	0.021

TABLE 2 (Continued)
Laboratory Results for Respirable Dust

Sampling Day, Activity and Location	Respirable Dust Concentration mg/m ³
Wednesday, May 15 - Demolition at Dutch Boy, Downwind (3)	0.059, 0.044, 0.027
Wednesday, May 15 - Demolition at Dutch Boy, Upwind (1)	0.028
Thursday, May 16 - Demolition at Dutch Boy, Downwind (3)	0.035, 0.036, 0.048
Thursday, May 16 - Demolition at Dutch Boy, Upwind (1)	0.020
Friday, May 17 - Demolition at Dutch Boy, Downwind (3)	0.052, 0.041, 0.020
Friday, May 17 - Demolition at Dutch Boy, Upwind (1)	0.026
Saturday, May 18 - Demolition at Dutch Boy, Downwind (3)	0.082, 0.087
Saturday, May 18 - Demolition at Dutch Boy, Upwind (1)	0.075
Monday, May 20 - Demolition at Dutch Boy, Downwind (3)	0.019, 0.013, 0.017
Monday, May 20 - Demolition at Dutch Boy, Upwind (1)	0.010
Tuesday, May 21 - Demolition at Dutch Boy, Downwind (3)	0.026, 0.018
Tuesday, May 21 - Demolition at Dutch Boy, Upwind (1)	N.D.
Tuesday, May 21 - Demolition at International Harvester, Downwind (2)	0.027
Wednesday, May 22 - Demolition at Dutch Boy, Downwind (2)	0.027, 0.042
Wednesday, May 22 - Demolition at Dutch Boy, Upwind (0)	N.A.
Wednesday, May 22 - Demolition at International Harvester, Downwind (3)	N.D.
Thursday, May 23 - Demolition at Dutch Boy (0)	N.A.
Thursday, May 23 - Demolition at International Harvester (0)	N.A.
Wednesday, June 12 - Background Sampling at Dutch Boy (4)	N.D.
Wednesday, June 12 - Background Sampling at International Harvester (4)	0.048

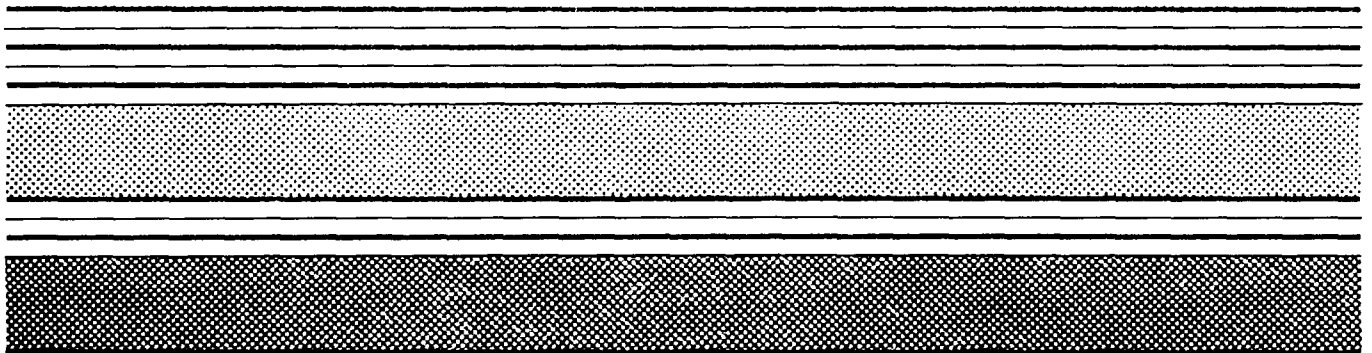
- ▶ Numbers in parentheses represent the number of samples collected.
- ▶ mg/m³ milligrams per cubic meter.
- ▶ The voluntary action level for lead on this project is 2.5 mg/m³.
- ▶ The OSHA PEL for respirable dust is 5 mg/m³.
- ▶ N.D. All samples analyzed were below quantitation limits.
- ▶ N.A. Not Applicable.
- ▶ Laboratory Analysis performed by American Medical Laboratories, Inc.

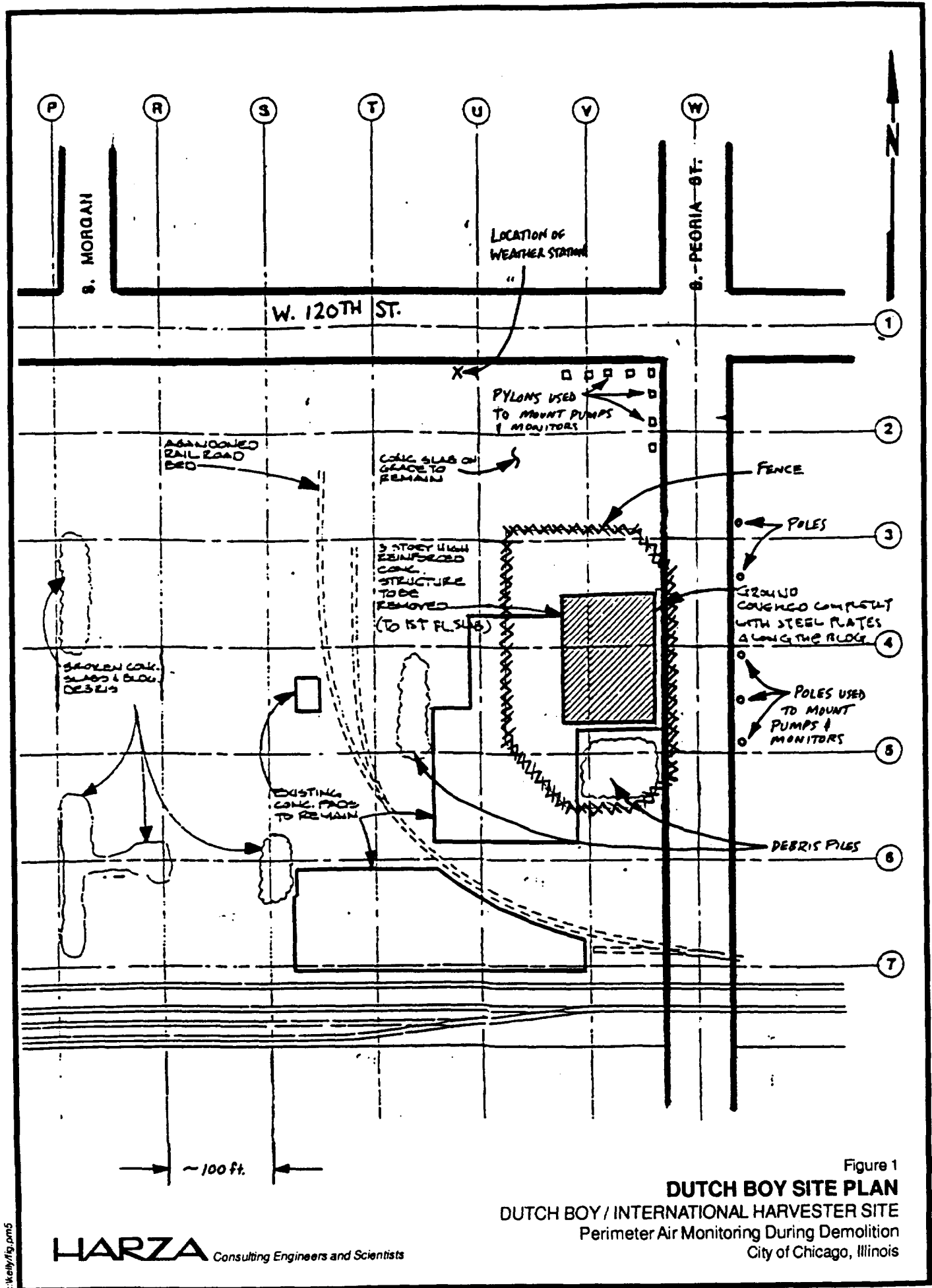
TABLE 3
Real-Time Monitoring Ranges for Respirable Dust

Sampling Day, Activity and Location	Respirable Dust Concentration Range mg/m³
Tuesday, April 30 - Setup and Demolition at Dutch Boy	0.00-0.32
Wednesday, May 1 - Demolition at Dutch Boy	0.00-0.88
Thursday, May 2 - Demolition at Dutch Boy	0.00-1.90
Friday, May 3 - Demolition at Dutch Boy	0.03-0.57
Saturday, May 4 - Demolition at Dutch Boy	0.04-1.67
Monday, May 6 - Demolition at Dutch Boy	0.01-1.92
Tuesday, May 7 - Demolition at Dutch Boy	0.00-0.23
Wednesday, May 8 - Demolition at Dutch Boy	0.00-1.23
Thursday, May 9 - Demolition at Dutch Boy	0.00-0.63
Friday, May 10 - Demolition at Dutch Boy	0.00-0.39
Saturday Morning, May 11 - Demolition at International Harvester	0.01-1.00
Saturday Afternoon, May 11 - Demolition at Dutch Boy	0.00-0.46
Monday, May 13 - Demolition at Dutch Boy	0.00-0.35
Tuesday, May 14 - Demolition at Dutch Boy	0.00-0.08
Wednesday, May 15 - Demolition at Dutch Boy	0.00-0.54
Thursday, May 16 - Demolition at Dutch Boy	0.00-0.58
Friday, May 17 - Demolition at Dutch Boy	0.00-0.39
Saturday, May 18 - Demolition at Dutch Boy	0.00-0.18
Monday, May 20 - Demolition at Dutch Boy	0.00-0.66
Tuesday, May 21 - Demolition at Dutch Boy	0.00-0.15
Tuesday, May 21 - Demolition at International Harvester	0.00-0.00
Wednesday, May 22 - Demolition at Dutch Boy	0.00-0.18
Wednesday, May 22 - Demolition at International Harvester	0.00-0.10
Thursday, May 23 - Demolition at Dutch Boy	0.00-0.00
Thursday, May 23 - Demolition at International Harvester	0.00-0.00

- mg/m³ milligrams per cubic meter.
- The ranges shown represent recordings from all monitors.
- The voluntary action level for lead on this project is 2.5 mg/m³.
- The OSHA PEL for respirable dust is 5 mg/m³.

FIGURES





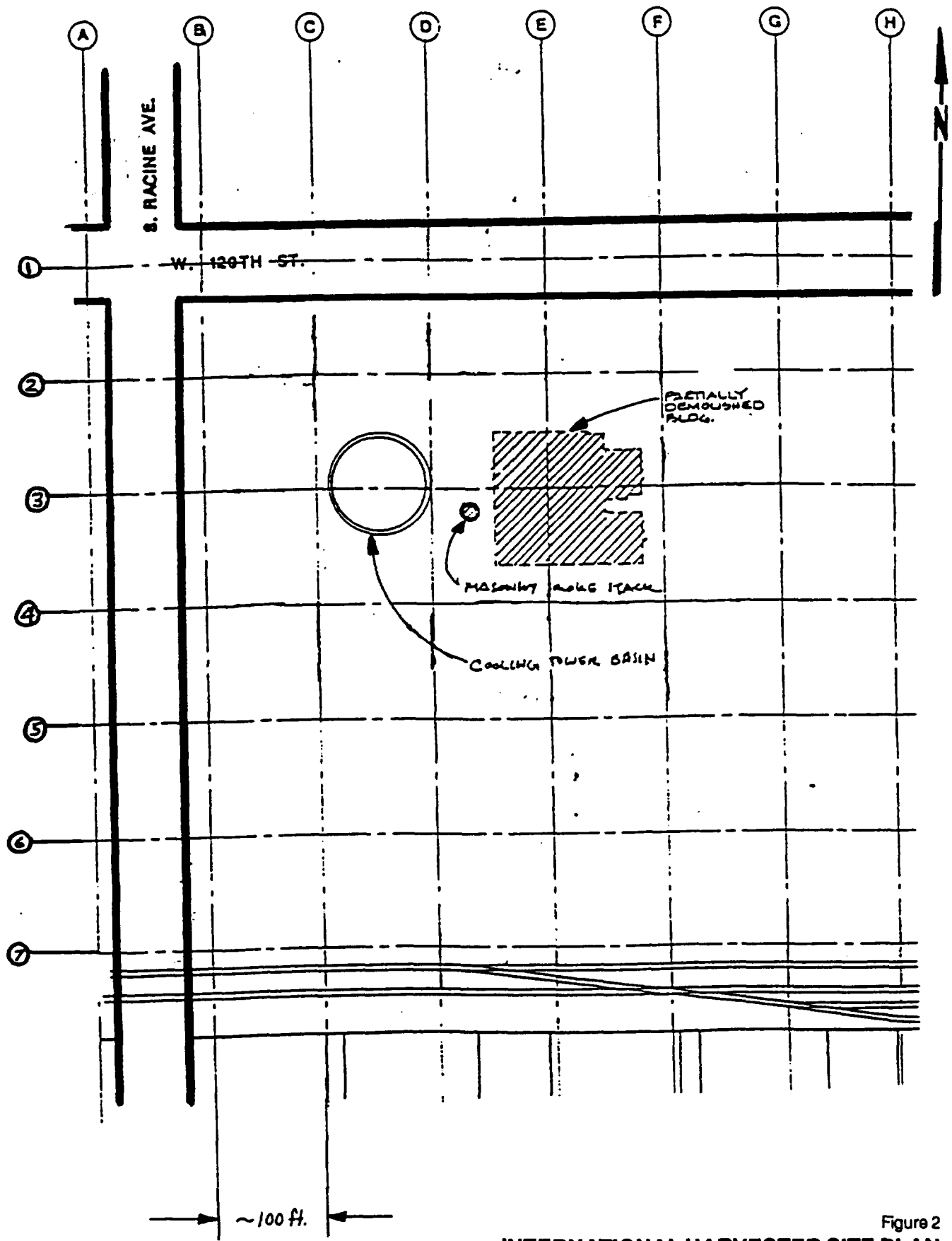


Figure 2
INTERNATIONAL HARVESTER SITE PLAN
 DUTCH BOY / INTERNATIONAL HARVESTER SITE
 Perimeter Air Monitoring During Demolition
 City of Chicago, Illinois

APPENDIX A



**DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Laboratory Results
Sampling Performed April 28, 1996**

Sampling Location	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m^3
Background Sampling, East Side of Building, Near Peoria Street, Dutch Boy Site	N.D.	N.D.
Background Sampling, North Side of Building, Near 120th Street, Dutch Boy Site	N.D.	0.048
Background Sampling, West Side of Building, by Ramp, Dutch Boy Site	N.D.	N.D.
Background Sampling, South Side of Building, by Ramp, Dutch Boy Site	N.D.	N.D.

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $4.0 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.010 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT

Perimeter Air Sampling Results

Sampling Performed Tuesday, April 30, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.039	0.17 - 0.32
Downwind Sampling, East Side of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.055	0.00 - 0.05
Downwind Sampling, Southeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	N.D.	0.00 - 0.04
Upwind Sampling, Northwest Corner of Building, by Ramp, Dutch Boy Site	N.D.	0.030	0.15 - 0.21

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $1.9 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.009 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

**DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Wednesday, May 1, 1996**

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	5.5	0.084	0.09 - 0.88
Downwind Sampling, East Side of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.119	0.00 - 0.00
Downwind Sampling, Southeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.012	0.00 - 0.04
Upwind Sampling, Northwest Corner of Building, by Ramp, Dutch Boy Site	N.D.	0.030	0.00 - 0.06

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $2.1 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.009 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Thursday, May 2, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m^3	
Downwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	26.1	0.146	0.06 - 1.90
Downwind Sampling, East Side of Building, Across Peoria Street, Dutch Boy Site	3.8	0.017	-
Downwind Sampling, Southeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.029	0.00 - 0.04
Upwind Sampling, Northwest Corner of Building, by Ramp, Dutch Boy Site	N.D.	N.D.	0.00 - 0.04

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $1.5 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.011 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

**DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Friday Morning, May 3, 1996**

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m^3	
Downwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	8.7	0.14	0.26 - 0.46
Downwind Sampling, East Side of Building, Across Peoria Street, Dutch Boy Site	19	0.169	0.42 - 0.47
Downwind Sampling, Southeast Corner of Building, Across Peoria Street, Dutch Boy Site	2.5	N.D.	0.03 - 0.12
Upwind Sampling, Southwest Corner of Building, on Slab, Near Debris Pile, Dutch Boy Site	N.D.	0.017	0.14 - 0.29

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $3.8 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.016 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Friday Afternoon, May 3, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Upwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	N.D.	0.28 - 0.36
Downwind Sampling, South Side of Building, on South Fence, Dutch Boy Site	N.D.	0.048	0.55 - 0.57
Downwind Sampling, Southwest Corner of Building, on Fence, Dutch Boy Site	8.9	0.072	0.05 - 0.11
Downwind Sampling, Southwest Corner of Building, on Slab, Dutch Boy Site	5.1	0.048	0.29 - 0.51

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $3.8 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.027 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Saturday, May 4, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air μg/m ³	Respirable Dust mg/m ³	
Upwind Sampling, North Side of Building, on Pylon, Along 120th Street, Dutch Boy Site	N.D.	0.029	0.70 - 0.74
Downwind Sampling, Southwest Corner of Building, Along West Fence, Dutch Boy Site	17	0.074	0.30 - 1.05
Downwind Sampling, Southwest Corner of Building, Along South Fence, Dutch Boy Site	16	0.170	0.04 - 0.05
Downwind Sampling, South Side of Building, Along South Fence, Dutch Boy Site	5.3	0.052	0.39 - 1.67

- ▶ μg/m³ micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- ▶ N.D. Concentration is below the 2.0 μg/m³ quantitation limit for lead.
- ▶ N.D. Concentration is below the 0.015 mg/m³ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is 50 μg/m³.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Monday, May 6, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air μg/m ³	Respirable Dust mg/m ³	
Upwind Sampling, Northeast of Building, on Pylon, West Side of Peoria Street, Dutch Boy Site	N.D.	0.023	0.03 - 0.11
Downwind Sampling, South Side of Building, on Fence, Dutch Boy Site	2.8	0.078	0.01 - 0.16
Downwind Sampling, Southwest Side of Building, on Fence, Dutch Boy Site	11	0.028	0.01 - 1.92
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	12	0.073	0.01 - 1.08

- ▶ μg/m³ micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- ▶ N.D. Concentration is below the 1.5 μg/m³ quantitation limit for lead.
- ▶ N.D. Concentration is below the 0.011 mg/m³ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is 50 μg/m³.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Tuesday, May 7, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air μg/m ³	Respirable Dust mg/m ³	
Upwind Sampling, Northeast of Building, on Pylon, West Side of Peoria Street, Dutch Boy Site	N.D.	N.D.	0.00 - 0.06
Downwind Sampling, South Side of Building, on Fence, Dutch Boy Site	N.D.	N.D.	0.03 - 0.23
Downwind Sampling, Southwest Side of Building, on Fence, Dutch Boy Site	N.D.	0.013	0.00 - 0.21
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	2.1	N.D.	0.00 - 0.19

- ▶ μg/m³ micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- ▶ N.D. Concentration is below the 1.5 μg/m³ quantitation limit for lead.
- ▶ N.D. Concentration is below the 0.011 mg/m³ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is 50 μg/m³.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Wednesday, May 8, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Upwind Sampling, Northeast of Building, on Pole, East Side of Peoria Street, Dutch Boy Site	N.D.	0.105	0.00 - 1.02
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	2.7	1.44	0.00 - 0.57
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	N.D.	0.052	0.00 - 0.49
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	1.4	0.035	0.00 - 1.23

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $1.3 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.011 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Thursday Morning, May 9, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Upwind Sampling, Northeast of Building, on Pole, East Side of Peoria Street, Dutch Boy Site	N.D.	0.080	0.00 - 0.10
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.099	0.00 - 0.29
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	N.D.	0.041	0.00 - 0.63
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	N.D.	0.064	0.00 - 0.00

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $4.0 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.032 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Thursday Afternoon, May 9, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Upwind Sampling, South of Building, on Fence, Dutch Boy Site	N.D.	0.053	0.00 - 0.00
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	N.D.	0.00 - 0.00
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	0.19	0.00 - 0.00
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.17	0.00 - 0.00

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $4.7 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.032 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Friday Morning, May 10, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Upwind Sampling, Southwest of Building, on Platform, Dutch Boy Site	N.D.	0.092	0.00 - 0.00
Downwind Sampling, East of Building, on Pole, East Side of Peoria Street, Dutch Boy Site	7.1	2.35	0.00 - 0.39
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	N.D.	0.00 - 0.02
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.031	0.00 - 0.00

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $3.2 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.023 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Friday Afternoon, May 10, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Upwind Sampling, North of Building, on Fence, Dutch Boy Site	---	---	0.00 - 0.02
Downwind Sampling, Southeast of Building, on Fence, Dutch Boy Site	---	---	0.10 - 1.09
Downwind Sampling, South of Building, on Fence, Dutch Boy Site	---	---	0.36 - 0.71
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	---	---	0.00 - 0.17

- ▶ --- no sample sent for analysis due to insufficient volume.
- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Saturday Morning, May 11, 1996

The weather conditions were overcast, approximately 40°F, with winds from the north/northwest at approximately 10-12 miles per hour, at 06:00 a.m. The ground and smokestack were damp from overnight showers. The smokestack demolition started at 06:20 a.m. and ended at 07:05 a.m. Visual observations indicated that the dust created when the smokestack fell dissipated in approximately 2 minutes.

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air μg/m ³	Respirable Dust mg/m ³	
Downwind Sampling, Southwest of Smokestack, West End of Railroad Fence, International Harvester Site, Northwest of White School	N.D.	N.D.	0.03 - 0.15
Downwind Sampling, South of Smokestack, Near West End of Railroad Fence, International Harvester Site, North of White School	N.D.	0.702	0.04 - 1.00
Downwind Sampling, South of Smokestack, Near East End of Railroad Fence, International Harvester Site, North of White School	N.D.	0.063	0.03 - 0.05
Downwind Sampling, Southeast of Smokestack, East End of Railroad Fence, International Harvester Site, Northeast of White School	N.D.	N.D.	0.01 - 0.03

- ▶ μg/m³ micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- ▶ N.D. Concentration is below the 5.7 μg/m³ quantitation limit for lead.
- ▶ N.D. Concentration is below the 0.040 mg/m³ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is 50 μg/m³.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Saturday Morning, May 11, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Upwind Sampling, West of Building, on Fence, Dutch Boy Site	N.D.	0.046	0.00 - 0.15
Downwind Sampling, Southeast of Building, on Fence, Dutch Boy Site	N.D.	0.046	0.41 - 0.46
Downwind Sampling, South of Building, on Fence, Dutch Boy Site	N.D.	0.084	0.23 - 0.36
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	N.D.	0.024	0.00 - 0.07

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $3.5 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.032 \text{ mg}/\text{m}^3$ detection limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Monday, May 13, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	0.057	0.00 - 0.02
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.080	0.00 - 0.35
Downwind Sampling, East of Building, on Pole, Dutch Boy Site	N.D.	0.039	0.00 - 0.00
Upwind Sampling, Southwest of Building, on Platform, Dutch Boy Site	N.D.	0.043	0.00 - 0.25

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $3.0 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Tuesday, May 14, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air μg/m ³	Respirable Dust mg/m ³	
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.062	0.00 - 0.08
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	0.036	0.00 - 0.07
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.038	0.00 - 0.03
Upwind Sampling, South of Building, on Platform, Dutch Boy Site	N.D.	0.021	0.00 - 0.05

- ▶ μg/m³ micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- ▶ N.D. Concentration is below the 2.0 μg/m³ quantitation limit for lead.
- ▶ The OSHA Permissible Exposure Level for lead in air is 50 μg/m³.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Wednesday, May 15, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.059	0.00 - 0.54
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	0.044	0.00 - 0.36
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.027	0.00 - 0.40
Upwind Sampling, South of Building, on Platform, Dutch Boy Site	N.D.	0.028	0.00 - 0.40

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $1.4 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Thursday, May 16, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.035	0.00 - 0.51
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	N.D.	0.036	0.00 - 0.58
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	N.D.	0.048	0.00 - 0.43
Upwind Sampling, Northeast of Building, on Pole, Dutch Boy Site	N.D.	0.020	0.00 - 0.51

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $2.2 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Friday, May 17, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air μg/m ³	Respirable Dust mg/m ³	
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.052	0.00 - 0.39
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	1.7	0.041	0.00 - 0.33
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.020	0.00 - 0.28
Upwind Sampling, South of Building, on Platform, Dutch Boy Site	18.1	0.026	0.00 - 0.39

- ▶ μg/m³ micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- ▶ N.D. Concentration is below the 1.6 μg/m³ quantitation limit for lead.
- ▶ The OSHA Permissible Exposure Level for lead in air is 50 μg/m³.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Saturday, May 18, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, Northeast of Building, on Pole, Dutch Boy Site	2.5	N.D.	0.00 - 0.03
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	3.5	0.082	0.00 - 0.18
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.087	0.00 - 0.08
Upwind Sampling, South of Building, on Platform, Dutch Boy Site	N.D.	0.075	0.00 - 0.15

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $1.9 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.014 \text{ mg}/\text{m}^3$ quantitation limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Monday, May 20, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	5.5	0.019	0.00 - 0.38
Downwind Sampling, East of Building, on Fence, Dutch Boy Site	2.1	0.013	0.00 - 0.66
Downwind Sampling, Southeast of Building, on Fence, Dutch Boy Site	2.5	0.017	0.00 - 0.10
Upwind Sampling, West of Building, on Platform, Dutch Boy Site	1.3	0.010	0.00 - 0.11

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Tuesday, May 21, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, East of Building, on Fence, Dutch Boy Site	2.1	0.026	0.00 - 0.15
Downwind Sampling, Southeast of Building, on South Fence, Dutch Boy Site	N.D.	N.D.	0.00 - 0.03
Downwind Sampling, Southeast of Building, on East Fence, Dutch Boy Site	N.D.	0.018	0.00 - 0.07
Upwind Sampling, West/Northwest of Building, on Platform, Dutch Boy Site	N.D.	N.D.	0.00 - 0.00

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $3.3 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.024 \text{ mg}/\text{m}^3$ quantitation limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Tuesday, May 21, 1996

Sampling Location	Laboratory Analysis Respirable Dust mg/m³	Respirable Dust Real-Time Monitoring Range mg/m³
Downwind Sampling, West of Smokestack, International Harvester Site	0.027	0.00 - 0.00
Downwind Sampling, South of Smokestack, International Harvester Site	N.D.	0.00 - 0.00

- ▶ mg/m³ milligrams per cubic meter.
- ▶ N.D. Concentration is below the 0.027 mg/m³ quantitation limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Wednesday, May 22, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	---	---
Downwind Sampling, Northeast of Building, on South Fence, Dutch Boy Site	4.4	---	---
Downwind Sampling, Southeast of Building, on East Fence, Dutch Boy Site	N.D.	0.027	0.00 - 0.03
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	N.D.	0.042	0.00 - 0.18

- ▶ --- no sampling or real-time monitoring was performed at this location.
- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $1.5 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Wednesday, May 22, 1996

Sampling Location	Laboratory Analysis Respirable Dust mg/m³	Respirable Dust Real-Time Monitoring Range mg/m³
Downwind Sampling, South of Smokestack, International Harvester Site	N.D.	0.00 - 0.00
Downwind Sampling, East of Smokestack, International Harvester Site	N.D.	0.00 - 0.10
Downwind Sampling, Northeast of Smokestack, International Harvester Site	N.D.	---

- ▶ --- no real-time monitoring performed at this location.
- ▶ mg/m³ milligrams per cubic meter.
- ▶ N.D. Concentration is below the 0.013 mg/m³ quantitation limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Thursday, May 23, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time Monitoring Range mg/m ³
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m ³	
Downwind Sampling, East of Building, on South Fence, Dutch Boy Site	---	---	0.00 - 0.00
Downwind Sampling, Southeast of Building, on East Fence, Dutch Boy Site	---	---	0.00 - 0.00

- ▶ --- no sample sent for analysis due to steady rain.
- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{ mg}/\text{m}^3$.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Thursday, May 23, 1996

Sampling Location	Laboratory Analysis Respirable Dust mg/m³	Respirable Dust Real-Time Monitoring Range mg/m³
Downwind Sampling, South of Smokestack, International Harvester Site	---	0.00 - 0.00
Downwind Sampling, Southeast of Smokestack, International Harvester Site	---	0.00 - 0.00

- ▶ --- no sample sent for analysis due to steady rain.
- ▶ mg/m³ milligrams per cubic meter.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Wednesday, June 12, 1996

Sampling Location	Laboratory Analysis	
	Lead in Air $\mu\text{g}/\text{m}^3$	Respirable Dust mg/m^3
Background Sampling, West of Building, on Platform, Dutch Boy Site	N.D.	N.D.
Background Sampling, South of Building, on Platform, Dutch Boy Site	N.D.	N.D.
Background Sampling, East of Building, on Platform, Dutch Boy Site	N.D.	N.D.
Background Sampling, North of Building, on Platform, Dutch Boy Site	N.D.	N.D.

- ▶ $\mu\text{g}/\text{m}^3$ micrograms per cubic meter.
- ▶ mg/m^3 milligrams per cubic meter.
- ▶ N.D. Concentration is below the $3.3 \mu\text{g}/\text{m}^3$ quantitation limit for lead.
- ▶ N.D. Concentration is below the $0.024 \text{mg}/\text{m}^3$ quantitation limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for lead in air is $50 \mu\text{g}/\text{m}^3$.
- ▶ The OSHA Permissible Exposure Level for respirable dust is $5 \text{mg}/\text{m}^3$.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.

DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT
Perimeter Air Sampling Results
Sampling Performed Wednesday, June 12, 1996

Sampling Location	Laboratory Analysis Respirable Dust mg/m³
Background Sampling, North of Smokestack, International Harvester Site	N.D.
Background Sampling, East of Smokestack, International Harvester Site	0.048
Background Sampling, South of Smokestack, International Harvester Site	N.D.
Background Sampling, West of Smokestack, International Harvester Site	N.D.

- ▶ mg/m³ milligrams per cubic meter.
- ▶ N.D. Concentration is below the 0.024 mg/m³ quantitation limit for respirable dust.
- ▶ The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ▶ The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.

APPENDIX B



AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 • 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available
ge and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/01/96 RECEIVED : 05/01/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS-----

8532219 042896-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: BASELINE/ N. SIDE OF BLDG.
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 4.0 ug/M3
AIR VOLUME: 504 LITERS
ANALYST: Earl Callender

8532220 042896-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: BASELINE/ W. SIDE OF BLDG.
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 4.0 ug/M3
AIR VOLUME: 504 LITERS
ANALYST: Earl Callender

8532221 042896-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: BASELINE/ S. SIDE OF BLDG.
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 4.0 ug/M3
AIR VOLUME: 504 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/01/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/02/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/02/96 233 S. WACKER DRIVE
WORK ORDER: 121963 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8532216 042896-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8532217 042896-02 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8532218 042896-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: BASELINE/ E. SIDE OF BLDG.
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 4.0 ug/M3
AIR VOLUME: 504 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

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RECEIVED : 05/02/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/02/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/02/96 233 S. WACKER DRIVE
WORK ORDER: 121968 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8532222 96-4-79 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: BASELINE/EAST SIDE OF BLDG.
DATE COLLECTED: 4-28-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.029 mg/M3
AIR VOLUME: 357 Liters
ANALYST: Maria Marino

8532223 96-4-85 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: BASELINE/NORTH SIDE OF BLDG.
DATE COLLECTED: 4-28-96
MASS: 0.017 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.048 mg/M3
AIR VOLUME: 357 Liters
ANALYST: Maria Marino

8532224 96-4-78 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: BASELINE/WEST SIDE OF BLDG.
DATE COLLECTED: 4-28-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.028 mg/M3
AIR VOLUME: 357 Liters
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/01/96 RECEIVED : 05/01/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,

INCLUDING REQUESTS FOR SUPPLIES, CALL

1-800-348-1590

[P 72925]-[S 1]

Ira D. Godwin, M.D.
Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/02/96 RECEIVED : 05/02/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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[P 72925]-[S 2]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/02/96 RECEIVED : 05/02/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS-----

8532225 96-4-94 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: BASELINE/SOUTH SIDE OF BLDG.
DATE COLLECTED: 4-28-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.028 mg/M3
AIR VOLUME: 357 Liters
ANALYST: Maria Marino

8532226 96-4-63-BLANK BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 4-28-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8532227 96-4-73-BLANK BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 4-28-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/02/96 RECEIVED : 05/02/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS-----

8532213 043096-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: FRONT SIDE OF BLDG.
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.8 ug/M3
AIR VOLUME: 1,152 Liters
ANALYST: Earl Callender

8532214 043096-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SOUTH EAST CORNER OF BLDG.
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.8 ug/M3
AIR VOLUME: 1,152 Liters
ANALYST: Earl Callender

8532215 043096-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NORTH WEST CORNER OF BLDG.
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.9 ug/M3
AIR VOLUME: 1,104 Liters
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

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RECEIVED : 05/02/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/02/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/02/96 233 S. WACKER DRIVE
WORK ORDER: 121970 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8532210 043096-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8532211 043096-02 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8532212 043096-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NORTH EAST CORNER OF BLDG.
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.8 ug/M3
AIR VOLUME: 1,140 Liters
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

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age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

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RECEIVED : 05/02/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/02/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/02/96 233 S. WACKER DRIVE
WORK ORDER: 121969 CHICAGO , IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8532228 96-4-67-BLANK BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 4-30-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8532229 96-4-89-BLANK BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 4-30-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8532230 96-4-87 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NORTH EAST CORNER OF BLDG.
DATE COLLECTED: 4-30-96
MASS: 0.045 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.039 mg/M3
AIR VOLUME: 1,140 Liters
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 • 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available
age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/02/96 RECEIVED : 05/02/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,

INCLUDING REQUESTS FOR SUPPLIES, CALL

1-800-348-1590

[P 72925]-[S 4]

Ira D. Godwin, M.D.
Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/02/96 RECEIVED : 05/02/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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INCLUDING REQUESTS FOR SUPPLIES, CALL
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[P 72925]-[S 3]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/02/96 RECEIVED : 05/02/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS-----

8532231	96-4-64	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	EAST SIDE OF BLDG.
	DATE COLLECTED:	4-30-96
	MASS:	0.063 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.055 mg/M3
	AIR VOLUME:	1,152 Liters
	ANALYST:	Maria Marino
8532232	96-4-97	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	SOUTH EAST CORNER OF BLDG.
	DATE COLLECTED:	4-30-96
	MASS:	Less than Detection Limit.
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	Less than Detection Limit.
	DETECTION LIMIT:	0.0087 mg/M3
	AIR VOLUME:	1,152 Liters
	ANALYST:	Maria Marino
8532233	96-4-49	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	NORTH WEST CORNER OF BLDG.
	DATE COLLECTED:	4-30-96
	MASS:	0.033 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.030 mg/M3
	AIR VOLUME:	1,104 Liters
	ANALYST:	Maria Marino

REPORT CONTINUED ON NEXT PAGE...

KS = 3717/00007

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INDUSTRIAL HYGIENE DEPARTMENT

P. 1

RECEIVED : 05/03/96
RELEASED : 05/07/96
REPORTED : 05/07/96
WORK ORDER: 122084

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

ML NUMBER-----VALUE-----UNITS-----

8532741 050196-01 FLD BLANK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8532742 050196-02 FLD BLANK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8532743 050196-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE CORNER OF BLDG
MASS: 7.4 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 5.5 ug/M3
AIR VOLUME: 1344 LITERS
ANALYST: Earl Callender

8532744 050196-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: E SIDE OF BLDG
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.1 ug/M3
AIR VOLUME: 972 LITERS
ANALYST: Earl Callender

8532745 050196-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SE CORNER OF BLDG
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
CONTINUED ON NEXT PAGE

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: MAY 2, 1996

Client: CITY OF CHICAGO

Day of the week: THURSDAY

DUTCHBLAY SITE

Sampled by: STEPHEN HEMPEL

Sample	2880	2467	2476	2466	
Location	E. SIDE OF BLDG. ON E. SIDE OF PEORIA STREET NE CORNER (DW)	————— E. SIDE (DW)	————— SE CORNER (DW)	W. SIDE OF BLDG. SW CORNER (UW)	
WEATHER COND.	SUNNY IN MORNING OVERCAST AFTER NOON, 45°F - 65°F WINDS FROM WEST @ ~ 5 mph (max)				
1st Reading	0710 / 0.06	0715	0715 / 0.00	0725 / 0.01	
2nd Reading	0810 / 0.59	DEAD BAT.	0810 / 0.00	0820 / 0.04	
3rd Reading	0905 / 0.08		0905 / 0.04	0915 / 0.00	
4th Reading	1015 / 0.24		1015 / 0.00	1020 / 0.01	
5th Reading	1110 / 1.52		1115 / 0.02	1120 / 0.02	
6th Reading	1200 / 1.99		1200 / 0.00	1210 / 0.00	
7th Reading	1300 / .51		1300 / 0.00	1310 / 0.00	
8th Reading	1430 / .56		1430 / 0.00	1440 / 0.00	
9th Reading	1510 / 0.61		1515 / 0.00	1520 / 0.00	
10th Reading	1625 / 1.90		1625 / 0.00	1625 / 0.00	
Comments		DEAD BAT.			

Comments:

(800) 348-1590

x 2

G L O G I

JMS = 3723/00001

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INDUSTRIAL HYGIENE DEPARTMENT

SPCS 1

RECEIVED : 05/03/96

RELEASED : 05/07/96

REPORTED : 05/07/96

WORK ORDER: 122082

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE

CHICAGO

, IL

60606

PROJECT NAME/JOB ID: 5593 M

ML NUMBER-----VALUE-----UNITS-----

8532753 96-4-77 FLD BLNK BLANK
1676 TOTAL WEIGHT
DATE COLLECTED: 5-1-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8532754 96-4-95 FLD BLNK BLANK
1676 TOTAL WEIGHT
DATE COLLECTED: 5-1-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8532755 96-4-82 FILTER, AIR
1676 TOTAL WEIGHT
SITE/LOCATION: NE CORNER OF BLDG.
DATE COLLECTED: 5-1-96
MASS: 0.080 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.084 mg/M3
AIR VOLUME: 952 LITERS
ANALYST: Maria Marino

8532756 96-4-65 FILTER, AIR
1676 TOTAL WEIGHT
SITE/LOCATION: E SIDE OF BLDG.
DATE COLLECTED: 5-1-96
MASS: 0.112 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.119 mg/M3
AIR VOLUME: 944 LITERS
ANALYST: Maria Marino

8532757 96-4-76 FILTER, AIR
1676 TOTAL WEIGHT
SITE/LOCATION: SE CORNER OF BLDG.
CONTINUED ON NEXT PAGE

CS - 3717/00007

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INDUSTRIAL HYGIENE DEPARTMENT

2
RECEIVED : 05/03/96
RELEASED : 05/07/96
REPORTED : 05/07/96
WORK ORDER: 122084

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO

IL
60606

PROJECT NAME/JOB ID: 5593 M

ML NUMBER-----VALUE-----UNITS-----

CONTINUED FROM PRIOR PAGE

QUANTITATION LIMIT: 1.6 ug/M3
AIR VOLUME: 1296 LITERS
ANALYST: Earl Callender

9532746 050196-06 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: NW CORNER OF BLDG
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.6 ug/M3
AIR VOLUME: 1284 LITERS
ANALYST: Earl Callender

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

RYAN MASON
DIRECTOR, IND. HYGIENE

IRS = 3723/00001

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INDUSTRIAL HYGIENE DEPARTMENT

3

IVED : 05/03/96
ELEASED : 05/07/96
EPORTED : 05/07/96
ORK ORDER: 122082

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO

IL
60606

PROJECT NAME/JOB ID: 5593 M

ML NUMBER-----VALUE-----UNITS-----

CONTINUED FROM PRIOR PAGE

RYAN MASON

IRECTOR, IND. HYGIENE

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/03/96

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REPORTED : 05/07/96

WORK ORDER: 122082

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE

CHICAGO

, IL
60606

PROJECT NAME/JOB ID: 5593 M

HML NUMBER-----VALUE-----UNITS-----

CONTINUED FROM PRIOR PAGE

DATE COLLECTED: 5-1-96

MASS: 0.011 mg

DETECTION LIMIT: 0.010 mg

CONCENTRATION: 0.012 mg/M3

AIR VOLUME: 918 LITERS

ANALYST: Maria Marino

9532758 96-4-61 FILTER, AIR

1676 TOTAL WEIGHT

SITE/LOCATION: NW CORNER OF BLDG.

DATE COLLECTED: 5-1-96

MASS: 0.027 mg

DETECTION LIMIT: 0.010 mg

CONCENTRATION: 0.030 mg/M3

AIR VOLUME: 910 LITERS

ANALYST: Maria Marino

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

The analysis for Total Weight is performed by a gravimetric procedure using NIOSH method 0500.

Total weight refers to the total mass of particulate present on the filter, and is not compound specific. For particulate not otherwise classified (not covered by a specific standard or mentioned in the Z-1, Z-2 or Z-3 tables) the OSHA permissible exposure limit (PEL) expressed as an 8 hour time weighted average (TWA) is 15 mg/M3 for total dust and 5 mg/M3 for a respirable fraction sample.

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KS = 3717/00001

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INDUSTRIAL HYGIENE DEPARTMENT

P- 1

IVED : 05/03/96
RELEASED : 05/07/96
REPORTED : 05/07/96
WORK ORDER: 122085

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELOCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO

, IL
60606

PROJECT NAME/JOB ID: 5593 M

ML NUMBER-----VALUE-----UNITS-----

8532735 050296-01 FLD BLANK BLANK

1592 LEAD (7439-92-1)

MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8532736 050296-02 FLD BLANK BLANK

1592 LEAD (7439-92-1)

MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8532737 050296-03

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: NE CORNER OF BLDG
MASS: 36.7 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 26.1 ug/M3
AIR VOLUME: 1404 LITERS
ANALYST: Earl Callender

8532738 050296-04

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: E SIDE OF BLDG
MASS: 3.7 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 3.8 ug/M3
AIR VOLUME: 984 LITERS
ANALYST: Earl Callender

8532739 050296-05

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: SE CORNER OF BLDG
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3

CONTINUED ON NEXT PAGE

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/1/96

Client: CITY OF CHICAGO

Day of the week: WEDNESDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL / RUDY ANGELUCCI

Sample	2467	2466	2876	2880	
Location	E. SIDE OF BLDG. ON POLES ON E.	E. SIDE OF BLDG. ON POLE ON E.	E. SIDE OF BLDG. ON POLE ON	W. SIDE OF BLDG. ON PLATFORM	
	SIDE OF STREET NE CORNER (DW)	SIDE OF STREET E. SIDE (DW)	SE CORNER (DW)	NW CORNER (UW)	
WEATHER CONDITION	SUNNY, WINDS FROM 58 °F	WEST @ 10-15 mph			
1st Reading	0710 / 0.19	0715 / 0.00	0730 / 0.00	0740 / 0.00	
2nd Reading	0810 / 0.09	0815 / 0.00	0820 / 0.00	0825 / 0.00	
3rd Reading	0920 / 0.36	0920 / 0.00	0925 / 0.00	0930 / 0.00	
4th Reading	1020 / 0.46	1020 / 0.00	1025 / 0.00	1030 / 0.00	
5th Reading	1115 / 0.88	1115 / 0.00	1120 / 0.04	1125 / 0.02	
6th Reading	1200 / 0.43	1200 / 0.00	1205 / 0.00	1210 / 0.00	
7th Reading	1315 / 0.77	1315 / 0.00	1320 / 0.00	1325 / 0.00	
8th Reading	1410 / 0.10	1415 / 0.00	1420 / 0.00	1425 / 0.00	
9th Reading	2466 1510 / 0.32	2467 OFF	1515 / 0.00	1520 / 0.06	
10th Reading	1630 / 0.10	OFF	1630 / 0.00	1635 / 0.00	
Comments					

Comments:

~~2467~~ ~~2466~~

MONITOR 2467 RAN OUT OF POWER AT ~ 1430. THE MONITOR 2466
WAS PLACED ON THE NE CORNER FOR THE DURATION OF MONITORING.

WKS = 3722/00013

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GE 1

CEIVED : 05/03/96

RELEASED : 05/07/96

REPORTED : 05/07/96

WORK ORDER: 122083

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE

CHICAGO

, IL

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8532747 96-4-51 FLD BLNK BLANK

1676 TOTAL WEIGHT

DATE COLLECTED: 5-2-96

MASS: 0.011 mg

DETECTION LIMIT: 0.010 mg

ANALYST: Maria Marino

8532748 96-4-86 FLD BLNK BLANK

1676 TOTAL WEIGHT

DATE COLLECTED: 5-2-96

MASS: 0.012 mg

DETECTION LIMIT: 0.010 mg

ANALYST: Maria Marino

8532749 96-4-66 FILTER, AIR

1676 TOTAL WEIGHT

SITE/LOCATION: NE CORNER OF BLDG

DATE COLLECTED: 5-2-96

MASS: 0.145 mg

DETECTION LIMIT: 0.010 mg

CONCENTRATION: 0.146 mg/M3

AIR VOLUME: 995 LITERS

ANALYST: Maria Marino

8532750 96-4-93 FILTER, AIR

1676 TOTAL WEIGHT

SITE/LOCATION: E SIDE OF BLDG

DATE COLLECTED: 5-2-96

MASS: 0.017 mg

DETECTION LIMIT: 0.010 mg

CONCENTRATION: 0.017 mg/M3

AIR VOLUME: 995 LITERS

ANALYST: Maria Marino

8532751 96-4-56 FILTER, AIR

1676 TOTAL WEIGHT

SITE/LOCATION: SE CORNER OF BLDG

CONTINUED ON NEXT PAGE

AKS = 3717/00001

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INDUSTRIAL HYGIENE DEPARTMENT

DATE 2

RECEIVED : 05/03/96
RELEASED : 05/07/96
REPORTED : 05/07/96
WORK ORDER: 122085

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

CONTINUED FROM PRIOR PAGE

AIR VOLUME: 1404 LITERS
ANALYST: Earl Callender

8532740 050296-06 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: SW CORNER OF BLDG
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1392 LITERS
ANALYST: Earl Callender

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

RYAN MASON
DIRECTOR, IND. HYGIENE

WKS = 3722/00013

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INDUSTRIAL HYGIENE DEPARTMENT

GE 3
RECEIVED : 05/03/96
RELEASED : 05/07/96
REPORTED : 05/07/96
WORK ORDER: 122083

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----
CONTINUED FROM PRIOR PAGE

BRYAN MASON
DIRECTOR, IND. HYGIENE

WKS = 3722/00013

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INDUSTRIAL HYGIENE DEPARTMENT

GE 2
CEIVED : 05/03/96
RELEASED : 05/07/96
REPORTED : 05/07/96
WORK ORDER: 122083

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

CONTINUED FROM PRIOR PAGE

DATE COLLECTED: 5-2-96
MASS: 0.029 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.029 mg/M3
AIR VOLUME: 995 LITERS
ANALYST: Maria Marino

8532752 96-4-90 FILTER, AIR
1676 TOTAL WEIGHT
SITE/LOCATION: SW CORNER OF BLDG
DATE COLLECTED: 5-2-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.011 mg/M3
AIR VOLUME: 986 LITERS
ANALYST: Maria Marino

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.
The analysis for Total Weight is performed by a gravimetric procedure using NIOSH method 0500.
Total weight refers to the total mass of particulate present on the filter, and is not compound specific.
For particulate not otherwise classified (not covered by a specific standard or mentioned in the 2-1, 2-2 or 2-3 tables) the OSHA permissible exposure limit (PEL) expressed as an 8 hour time weighted average (TWA) is 15 mg/M3 for total dust and 5 mg/M3 for a respirable fraction sample.

CONTINUED ON NEXT PAGE

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/07/96
RELEASED : 05/08/96
REPORTED : 05/08/96
WORK ORDER: 122199

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533303 050396-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8533304 050396-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8533305 050396-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE CORNER OF BUILDING
MASS: 8.1 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 8.7 ug/M3
AIR VOLUME: 936 LITERS
ANALYST: Earl Callender

8533306 050396-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: E SIDE OF-BUILDING
MASS: 17 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 19 ug/M3
AIR VOLUME: 912 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 4/30/96

Client: CITY OF CHICAGO

Day of the week: TUESDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL / RUDY ANGELUCCI

Sample	2466	2467	2876	2880	
Location	E. SIDE OF BLDG. ON POLES ON E.			W. SIDE OF BLDG. ON PLATFORM	
	SIDE OF STREET NE CORNER (DW)	E SIDE (DW)	SE CORNER (DW)	NW CORNER (DW)	
WEATHER CONDITION	OVERCAST WINDS FROM WEST @ 10-15 mph (MAX 27), 38°F OVERCAST, COLD, LIGHT MISTY RAIN				
1st Reading	0830 / 0.20	0835 / 0.03	0840 / 0.00	0845 / 0.21	
2nd Reading	0940 / 0.22	0940 / 0.05	0945 / 0.00	0950 / 0.21	
3rd Reading	1010 / 0.26	1012 / 0.03	1015 / 0.04	1020 / 0.19	
4th Reading	1120 / 0.30	1120 / 0.04	1125 / 0.00	1130 / 0.17	
5th Reading					
6th Reading	1320 / 0.32	1320 / 0.00	1325 / 0.00	1330 / 0.17	
7th Reading	1415 / 0.24	1420 / 0.00	1420 / 0.00	1425 / 0.15	
8th Reading	1500 / 0.21	1505 / 0.00	1510 / 0.00	1530 / 0.17	
9th Reading	1545 / 0.26	1550 / 0.00	—	—	
10th Reading	1615 / 0.17	1620 / 0.00	—	—	
Comments					

Comments:

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available
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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/08/96

AML NUMBER-----VALUE-----UNITS-----

8533311	050396-10	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	SW OF BUILDING ON SLAB
	MASS:	2.7 ug
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	5.1 ug/M3
	AIR VOLUME:	528 LITERS
	ANALYST:	Earl Callender

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

L. AN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 85209]-[S 9]

Ira D. Godwin, M.D.
Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/08/96

AML NUMBER-----VALUE-----UNITS-----

8533307	050396-05	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	SE CORNER OF BUILDING
	MASS:	2.3 ug
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	2.5 ug/M3
	AIR VOLUME:	912 LITERS
	ANALYST:	Earl Callender
8533308	050396-07	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	S OF BUILDING
	MASS:	Less than quantitation limit.
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	Less than quantitation limit.
	QUANTITATION LIMIT:	3.8 ug/M3
	AIR VOLUME:	528 LITERS
	ANALYST:	Earl Callender
8533309	050396-08	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	SW OF BUILDING ON FENCE
	MASS:	4.7 ug
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	8.9 ug/M3
	AIR VOLUME:	528 LITERS
	ANALYST:	Earl Callender
8533310	050396-09	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	NE OF BUILDING ON POLE
	MASS:	Less than quantitation limit.
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	Less than quantitation limit.
	QUANTITATION LIMIT:	3.8 ug/M3
	AIR VOLUME:	528 LITERS
	ANALYST:	Earl Callender

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

8533321	96-4-53	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	E SIDE OF BUILDING
	DATE COLLECTED:	5-3-96
	MASS:	0.109 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.169 mg/M3
	AIR VOLUME:	646 LITERS
	ANALYST:	Maria Marino
8533322	96-4-13	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	SE CORNER OF BUILDING
	DATE COLLECTED:	5-3-96
	MASS:	Less than Detection Limit.
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	Less than Detection Limit.
	DETECTION LIMIT:	0.016 mg/M3
	AIR VOLUME:	646 LITERS
	ANALYST:	Maria Marino
8533323	96-4-26	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	SW CORNER OF BUILDING
	DATE COLLECTED:	5-3-96
	MASS:	0.011 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.017 mg/M3
	AIR VOLUME:	646 LITERS
	ANALYST:	Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/07/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/09/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/09/96 233 S. WACKER DRIVE
WORK ORDER: 122206 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533318 96-4-47 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-3-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8533319 96-4-80 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-3-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8533320 96-4-57 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NE CORNER OF BUILDING
DATE COLLECTED: 5-3-96
MASS: 0.090 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.14 mg/M3
AIR VOLUME: 663 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 4

RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

8533327 96-4-12 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: SW OF BUILDING ON SLAB
DATE COLLECTED: 5-3-96
MASS: 0.018 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.048 mg/M3
AIR VOLUME: 374 LITERS
ANALYST: Maria Marino

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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[P 87815]-[S 11]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

8533324	96-4-55	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	S OF BUILDING ON FENCE
	DATE COLLECTED:	5-3-96
	MASS:	0.018 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.048 mg/M3
	AIR VOLUME:	374 LITERS
	ANALYST:	Maria Marino
8533325	96-4-58	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	SW OF BUILDING ON FENCE
	DATE COLLECTED:	5-3-96
	MASS:	0.027 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.072 mg/M3
	AIR VOLUME:	374 LITERS
	ANALYST:	Maria Marino
8533326	7598	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	NE OF BUILDING ON POLE
	DATE COLLECTED:	5-3-96
	MASS:	Less than Detection Limit.
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	Less than Detection Limit.
	DETECTION LIMIT:	0.027 mg/M3
	AIR VOLUME:	374 LITERS
	ANALYST:	Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/07/96
RELEASED : 05/08/96
REPORTED : 05/08/96
WORK ORDER: 122200

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533312 050496-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8533313 050496-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8533314 050496-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: N. OF BUILDING (UW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug/M3
AIR VOLUME: 1,008 LITERS
ANALYST: Earl Callender

8533315 050496-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SW OF BUILDING ON W FENCE (DW)
MASS: 17 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 17 ug/M3
AIR VOLUME: 1,008 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/3/96

Client: CITY OF CHICAGO

Day of the week: FRIDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

Sample	2476	2467	2466	2880	
Location	NE CORNER OF BLDG. ON E. SIDE OF ST. ON POLE (DW)	E. SIDE OF BLDG. ON POLE (DW)	SE. CORNER OF BLDG. ON POLE (DW)	SW. CORNER OF BLDG. ON SLAB NEAR DEBRIS PILE (UW)	
Weather Condition	SUNNY, LIGHT WINDS FROM WEST CHANGING TO N/NE IN PM @ 5-15 mph, ~50°F				
1st Reading	0710 / 0.28	0715 / 0.47	0720 / 0.08	0730 / 0.14	
2nd Reading	0800 / 0.34	0800 / 0.47	0800 / 0.12	0805 / 0.26	
3rd Reading	0905 / 0.26	0905 / 0.45	0905 / 0.12	0915 / 0.26	
4th Reading	1000 / 0.30	1010 / 0.47	1010 / 0.08	1015 / 0.26	
5th Reading	1100 / 0.46	1105 / 0.42	1105 / 0.03	1110 / 0.20	
6th Reading	1200 / 0.42	1205 / 0.47	1205 / 0.06	1210 / 0.29	WIND CHANGES TO N/NE
7th Reading	1320 / 0.36	1320 / 0.57	1320 / 0.08	1325 / 0.31	
8th Reading	1420 / 0.35	1415 / 0.55	1415 / 0.07	1410 / 0.29	
9th Reading	1510 / 0.30	1505 / 0.57	1505 / 0.11	1500 / 0.51	
10th Reading	1720 / 0.28	1715 / 0.57	1715 / 0.05	1725 / 0.51	
Comments LOCATIONS	NE CORNER OF BLDG. (UW)	S. SIDE OF BLDG. ON S. FENCE (DW)	SW CORNER OF BLDG. ON FENCE (DW)	SW CORNER OF BLDG. ON SLAB (DW)	

Comments:

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

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RELEASED : 05/09/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/09/96 233 S. WACKER DRIVE
WORK ORDER: 122207 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533328 7607 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-4-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8533329 7621 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-4-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8533330 96-4-48 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: N OF BUILDING, (UPWIND)
DATE COLLECTED: 5-4-96
MASS: 0.021 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.029 mg/M3
AIR VOLUME: 714 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/08/96

AML NUMBER-----VALUE-----UNITS-----

8533316 050496-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SW OF BUILDING ON S FENCE (DW)
MASS: 16 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 16 ug/M3
AIR VOLUME: 996 LITERS
ANALYST: Earl Callender

8533317 050496-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: S OF BUILDING ON S FENCE (DW)
MASS: 5.3 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 5.3 ug/M3
AIR VOLUME: 996 LITERS
ANALYST: Earl Callender

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

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[P 85209]-[S 10]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

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[P 87815]-[S 12]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

8533331 96-4-50 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
SW OF BUILDING ON WESTFENCE (DW)
DATE COLLECTED: 5-4-96
MASS: 0.053 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.074 mg/M3
AIR VOLUME: 714 LITERS
ANALYST: Maria Marino

8533332 96-4-52 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
SW OF BUILDING ON SOUTH FENCE (DW)
DATE COLLECTED: 5-4-96
MASS: 0.120 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.170 mg/M3
AIR VOLUME: 706 LITERS
ANALYST: Maria Marino

8533333 96-4-60 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: S OF BUILDING (DW)
DATE COLLECTED: 5-4-96
MASS: 0.037 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.052 mg/M3
AIR VOLUME: 706 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

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RELEASED : 05/10/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/10/96 233 S. WACKER DRIVE
WORK ORDER: 122270 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533768 050696-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: John Bolejack

8533769 050696-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: John Bolejack

8533770 050696-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE OF BLDG (UW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1,416 LITERS
ANALYST: John Bolejack

8533771 050696-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: S OF BLDG ON FENCE (DW)
MASS: 3.8 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 2.8 ug/M3
AIR VOLUME: 1,404 LITERS
ANALYST: John Bolejack

REPORT CONTINUED ON NEXT PAGE...

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/4/96

Client: CITY OF CHICAGO

Day of the week: SATURDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

Sample	2467 *	2876	2466	2880	
Location	NORTH OF BLDG. ON PILON	SW CORNER OF BLDG. ALONG	SW CORNER OF BLDG. ALONG	S. SIDE OF BLDG. ALONG	
	ALONG 120 TH ST. (NW)	WEST FENCE (DW)	SOUTH FENCE (DW)	S. FENCE (DW)	
WEATHER COND.	COOL & DAMP,	WINDS LIGHT	FROM N/NE,	~40°F	
1st Reading	0715 / .74	0720 / .34	0725 / .05	0730 / .55	
2nd Reading	0815 / .74	0820 / .32	0820 / .05	0820 / .57	
3rd Reading	0915 / .74	0920 / .30	0920 / .05	0925 / .55	
4th Reading	1000 / .74	1005 / .57	BATTERY DEAD	1010 / .57	
5th Reading	1125 / .72	1130 / 1.05		1135 / 1.67	
6th Reading	1200 / .70	1205 / .85		1205 / .39	
7th Reading	1240 / .74	1245 / .30		1245 / .55	
8th Reading	1320 / .71	1325 / .33		1325 / .55	
9th Reading	1400 / .70	1405 / .33		1410 / .53	
10th Reading					
Comments	* SUSPECT INSTR. NOT ZEROED.				

Comments:

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

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RELEASED : 05/09/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/09/96 233 S. WACKER DRIVE
WORK ORDER: 122272 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533780 96-5-77 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-6-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8533781 96-5-79 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-6-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8533782 96-4-92 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NE OF BUILDING ON PILON*(UW)
DATE COLLECTED: 5-6-96
MASS: 0.023 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.023 mg/M3
AIR VOLUME: 1,003 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2
RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/10/96

AML NUMBER-----VALUE-----UNITS-----

8533772 050696-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SW OF BLDG ON FENCE (DW)
MASS: 16 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 11 ug/M3
AIR VOLUME: 1,416 LITERS
ANALYST: John Bolejack

8533773 050696-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: W OF BLDG ON FENCE (DW)
MASS: 17 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 12 ug/M3
AIR VOLUME: 1,416 LITERS
ANALYST: John Bolejack

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON
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[P 931097-(S 15)]

Ira D. Godwin, M.D.
Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 • 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available
Age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 87815]-[S 13]

Ira D. Godwin, M.D.
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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

8533783 96-4-62 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: S OF BUILDING ON FENCE (DW)
DATE COLLECTED: 5-6-96
MASS: 0.078 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.078 mg/M3
AIR VOLUME: 995 LITERS
ANALYST: Maria Marino

8533784 96-4-54 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: SW OF BUILDING ON FENCE (DW)
DATE COLLECTED: 5-6-96
MASS: 0.028 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.028 mg/M3
AIR VOLUME: 1,003 LITERS
ANALYST: Maria Marino

8533785 96-4-69 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: W OF BUILDING ON FENCE (DW)
DATE COLLECTED: 5-6-96
MASS: 0.073 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.073 mg/M3
AIR VOLUME: 1,003 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/08/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/10/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/10/96 233 S. WACKER DRIVE
WORK ORDER: 122271 CHICAGO , IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533774 050796-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: John Bolejack

8533775 050796-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: John Bolejack

8533776 050796-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE OF BUILDING ON PILON
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1,404 LITERS
ANALYST: John Bolejack

REPORT CONTINUED ON NEXT PAGE...

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/6/96

Client: CITY OF CHICAGO

Day of the week: MONDAY

DUTCHBOY SITE

Sampled by: STEPHEN HENDEL

5593 M

Sample	2880	2876	2467	2466	
Location	NE OF BLDG. ON PILE ON WEST SIDE OF PEORIA ST. (DW)	S SIDE OF BLDG. ON FENCE (DW)	SW OF BLDG. ON FENCE (DW)	WEST OF BLDG. ON FENCE (DW)	} SEE MAP
WEATHER COND.	OVERCAST & COOL, WINDS FROM N/NE @ 0-5mph, ~45°F				
1st Reading	0710 / 0.06	0715 / 0.05	0715 / 0.14	0720 / 0.19	
2nd Reading	0810 / 0.11	0815 / 0.09	0815 / 0.01	0820 / 0.13	
3rd Reading	0920 / 0.05	0925 / 0.07	0925 / 0.03	0930 / 0.01	
4th Reading	1015 / 0.07	1020 / 0.11	1020 / 0.05	1025 / 0.30	
5th Reading	1115 / 0.03	1120 / 0.01	1120 / 0.00	1120 / 0.05	
6th Reading	1210 / 0.03	1210 / 0.11	1210 / 0.05	1215 / 0.12	
7th Reading	1330 / 0.05	1330 / 0.08	1330 / 0.08	1335 / 0.17	
8th Reading	1410 / 0.05	1410 / 0.10	1410 / 1.92	1410 / 1.08	
9th Reading	1505 / 0.05	1510 / 0.12	1510 / 0.12	1515 / 0.32	
10th Reading	1630 / 0.05	1630 / 0.16	1630 / 0.52	1630 / 0.19	
Comments					

Comments: EACH MONITOR WAS ZEROED PRIOR TO SERVICE FOR THE DAY.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/10/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

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[P 93109]-[S 16]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/10/96

AML NUMBER-----VALUE-----UNITS-----

8533777 050796-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: S OF BUILDING ON FENCE
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1,404 LITERS
ANALYST: John Bolejack

8533778 050796-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SW OF BUILDING ON FENCE
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1,404 LITERS
ANALYST: John Bolejack

8533779 050796-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: W OF BUILDING ON FENCE
MASS: 2.9 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 2.1 ug/M3
AIR VOLUME: 1,404 LITERS
ANALYST: John Bolejack

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

8533789 96-4-20 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: S OF BUILDING ON FENCE
DATE COLLECTED: 5-7-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.011 mg/M3
AIR VOLUME: 995 LITERS
ANALYST: Maria Marino

8533790 96-4-21 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: SW OF BUILDING ON FENCE
DATE COLLECTED: 5-7-96
MASS: 0.013 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.013 mg/M3
AIR VOLUME: 995 LITERS
ANALYST: Maria Marino

8533791 96-4-59 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: W OF BUILDING ON FENCE
DATE COLLECTED: 5-7-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.011 mg/M3
AIR VOLUME: 995 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/08/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/09/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/09/96 233 S. WACKER DRIVE
WORK ORDER: 122273 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533786 96-5-75 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-7-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8533787 96-5-100 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-7-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8533788 7617 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: WE OF BUILDING ON PILON
DATE COLLECTED: 5-7-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.011 mg/M3
AIR VOLUME: 995 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/1/96

Client: CITY OF CHICAGO

Day of the week: TUESDAY

DUTCHBOY SITE

Sampled by: STEPHEN HENPEL

5593M

Sample	2880	2466	2467	2876	
Location	NE CORNER OF BLDG ON Pylon	W. SIDE OF BLDG. ON FENCE	SW. SIDE OF BLDG. ON FENCE (DW)	S. SIDE OF BLDG. ON FENCE (DW)	} SEE MAP
	ALONG PEARIA ST. (VW)	(DW)			
1st Reading	0730 / 0.04	0735 / 0.02	0735 / 0.09	0748 / 0.03	← SPRINKLING RAIN
2nd Reading	0900 / 0.06	0900 / 0.00	0905 / 0.21	0905 / 0.12	
3rd Reading	1015 / 0.00	1015 / 0.02	1020 / 0.06	1020 / 0.10	
4th Reading	1115 / 0.02	1115 / 0.09	1120 / 0.09	1120 / 0.12	
5th Reading	BATTERY OUT	1210 / 0.00	1210 / 0.00	1215 / 0.10	
6th Reading		1310 / 0.13	1310 / 0.01	1310 / 0.21	
7th Reading		1420 / 0.19	1420 / 0.04	1420 / 0.09	
8th Reading		1535 / 0.18	1535 / 0.05	1535 / 0.11	
9th Reading		1600 / 0.18	1605 / 0.05	1605 / 0.11	
10th Reading	↓	1700 / 0.13	1700 / 0.08	1700 / 0.23	
Comments					

Comments: EACH MONITOR WAS ZEROED PRIOR TO SERVICE FOR THE DAY.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

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[P 87815]-[S 14]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

8534551 050896-04 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

NW SIDE OF BUILDING ON FENCE (DW)

MASS: 4.3 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 2.7 ug/M3
AIR VOLUME: 1,572 LITERS
ANALYST: Luis Rossi

8534552 050896-05 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

W SIDE OF BUILDING ON FENCE (DW)

MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.3 ug/M3
AIR VOLUME: 1,572 LITERS
ANALYST: Luis Rossi

8534553 050896-06 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

SW SIDE OF BUILDING ON FENCE (DW)

MASS: 2.2 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 1.4 ug/M3
AIR VOLUME: 1,572 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/10/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/13/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/13/96 233 S. WACKER DRIVE
WORK ORDER: 122425 CHICAGO , IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8534548 050896-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8534549 050896-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8534550 050896-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION:
NE CORNER OF BUILDING ON POLE (UW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.3 ug/M3
AIR VOLUME: 1,620 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

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RELEASED : 05/13/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/13/96 233 S. WACKER DRIVE
WORK ORDER: 122426 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8534532 96-5-74 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-8-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8534533 96-5-88 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-8-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8534534 96-5-95 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
NE CORNER OF BUILDING ON POLE (UW)
DATE COLLECTED: 5-8-96
MASS: 0.120 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.105 mg/M3
AIR VOLUME: 1,148 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

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[P 95499]-[S 18]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

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[P 95499]-[S 19]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

8534535 96-5-76 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
NW SIDE OF BUILDING ON FENCE (DW)
DATE COLLECTED: 5-8-96
MASS: 1.60 ng
DETECTION LIMIT: 0.010 ng
CONCENTRATION: 1.44 mg/M3
AIR VOLUME: 1,114 LITERS
ANALYST: Maria Marino

8534536 96-5-93 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
W SIDE OF BUILDING ON FENCE (DW)
DATE COLLECTED: 5-8-96
MASS: 0.058 ng
DETECTION LIMIT: 0.010 ng
CONCENTRATION: 0.052 mg/M3
AIR VOLUME: 1,114 LITERS
ANALYST: Maria Marino

8534537 96-5-89 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
SW SIDE OF BUILDING ON FENCE (DW)
DATE COLLECTED: 5-8-96
MASS: 0.039 ng
DETECTION LIMIT: 0.010 ng
CONCENTRATION: 0.035 mg/M3
AIR VOLUME: 1,114 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

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RELEASED : 05/13/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/13/96 233 S. WACKER DRIVE
WORK ORDER: 122424 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8534554 050996-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8534555 050996-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8534556 050996-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE CORNER OF BUILDING (UW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.8 ug/M3
AIR VOLUME: 528 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/8/96 Client: CITY OF CHICAGO
 Day of the week: WEDNESDAY DUTCHBOY SITE
 Sampled by: STEPHEN HEMPEL 5593 M

Sample	2880	2467	2876	2466	
Location	NE CORNER OF BLDG. ON POLE	NW CORNER OF BLDG. ON FENCE (DW)	W. SIDE OF BLDG. ON FENCE (DW)	SW. SIDE OF BLDG. ON FENCE (DW)	} SEE MAP
WEATHER COND.	FOGGY & DAMP RAIN BEGAN AT ~9:15 AM	UPON ARRIVAL, ~9:15 AM AND	NO SIGNIFICANT WIND, ~45°F STOPPED AT ~10:30 AM	WIND, ~45°F	
1st Reading	0645 / 0.53	0645 / 0.37	0650 / 0.24	0655 / 0.59	NO ACTIVITY @ SITE.
2nd Reading	0745 / 1.02	0750 / 0.57	0755 / 0.49	0800 / 1.23	
3rd Reading	0830 / 0.82	0835 / 0.55	0835 / 0.48	0835 / 0.40	
4th Reading	0910 / 0.58	0915 / 0.37	0915 / 0.37	0915 / 0.77	RAIN BEGINS
5th Reading	—	—	—	—	STEADY RAIN ∴ PUMPS PULL
6th Reading	1030 / 0.37	1035 / 0.11	1035 / 0.00	1040 / 0.00	
7th Reading	1200 / 0.18	1205 / 0.27	1205 / 0.08	1205 / 0.20	
8th Reading	1345 / 0.22	1345 / 0.02	1345 / 0.00	1345 / 0.02	
9th Reading	1430 / 0.06	1430 / 0.02	1435 / 0.00	1435 / 0.00	
10th Reading	1620 / 0.00	1640 / 0.00	1640 / 0.00	1640 / 0.00	
Comments	1730 / 0.01	1735 / 0.00	1735 / 0.00	1735 / 0.00	

Comments:

- EACH MONITOR WAS ZEROED PRIOR TO SERVICE FOR THE DAY.
- MONITORS WERE ALSO RE-ZEROED BEFORE BEING PUT BACK IN SERVICE AFTER THE RAIN.
- MONITORS WERE PROBABLY READING HIGH IN THE MORNING DUE TO HIGH HUMIDITY LEVELS.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

8534561 050996-08 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE SIDE OF BUILDING (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 4.6 ug/M3
AIR VOLUME: 444 LITERS
ANALYST: Luis Rossi

8534562 050996-09 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: N SIDE OF BUILDING (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 4.6 ug/M3
AIR VOLUME: 444 LITERS
ANALYST: Luis Rossi

8534563 050996-10 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NW SIDE OF BUILDING (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 4.7 ug/M3
AIR VOLUME: 432 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

8534557 050996-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NW SIDE OF BUILDING (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.8 ug/M3
AIR VOLUME: 528 LITERS
ANALYST: Luis Rossi

8534558 050996-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: W SIDE OF BUILDING (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.9 ug/M3
AIR VOLUME: 516 LITERS
ANALYST: Luis Rossi

8534559 050996-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SW SIDE OF BUILDING (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 4.0 ug/M3
AIR VOLUME: 504 LITERS
ANALYST: Luis Rossi

8534560 050996-07 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: S SIDE OF BUILDING (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 4.4 ug/M3
AIR VOLUME: 456 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/10/96 17551 HARZA ENVIRONMENTAL SVCS, INC.
RELEASED : 05/13/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/13/96 233 S. WACKER DRIVE
WORK ORDER: 122427 CHICAGO , IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8534538 96-5-87 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-9-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8534539 96-5-91 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-9-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8534540 96-5-96 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NE SIDE OF BUILDING (UM)
DATE COLLECTED: 5-9-96
MASS: 0.030 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.080 mg/M3
AIR VOLUME: 374 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 4

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,

INCLUDING REQUESTS FOR SUPPLIES, CALL

1-800-348-1590

[P 95499]-[S 17]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

8534545 96-5-94 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NE SIDE OF BUILDING (DW)
DATE COLLECTED: 5-9-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.032 mg/M3
AIR VOLUME: 315 LITERS
ANALYST: Maria Marino

8534546 96-5-99 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: N SIDE OF BUILDING (DW)
DATE COLLECTED: 5-9-96
MASS: 0.059 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.19 mg/M3
AIR VOLUME: 315 LITERS
ANALYST: Maria Marino

8534547 96-5-101 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NW SIDE OF BUILDING (DW)
DATE COLLECTED: 5-9-96
MASS: 0.053 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.17 mg/M3
AIR VOLUME: 306 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

8534541 96-5-90 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NW SIDE OF BUILDING (DW)
DATE COLLECTED: 5-9-96
MASS: 0.037 ng
DETECTION LIMIT: 0.010 ng
CONCENTRATION: 0.099 mg/M3
AIR VOLUME: 374 LITERS
ANALYST: Maria Marino

8534542 96-5-81 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: W SIDE OF BUILDING (DW)
DATE COLLECTED: 5-9-96
MASS: 0.015 ng
DETECTION LIMIT: 0.010 ng
CONCENTRATION: 0.041 mg/M3
AIR VOLUME: 366 LITERS
ANALYST: Maria Marino

8534543 96-5-102 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: SW SIDE OF BUILDING (DW)
DATE COLLECTED: 5-9-96
MASS: 0.023 ng
DETECTION LIMIT: 0.010 ng
CONCENTRATION: 0.064 mg/M3
AIR VOLUME: 357 LITERS
ANALYST: Maria Marino

8534544 96-5-80 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: S SIDE OF BUILDING (DW)
DATE COLLECTED: 5-9-96
MASS: 0.017 ng
DETECTION LIMIT: 0.010 ng
CONCENTRATION: 0.053 mg/M3
AIR VOLUME: 323 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/9/96

Client: CITY OF CHICAGO

Day of the week: THURSDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

5593 M

Sample	2876	2466	2880	2467	
Location	(UW) NE CORNER OF BLDG. ON POLE ON E. SIDE OF ST.	NW CORNER OF BLDG. ON FENCE (DW)	W SIDE OF BLDG. ON FENCE (DW)	SW SIDE OF BLDG. ON FENCE (DW)	
WEATHER COND.	RAINY IN MORNING, ~50°F, WINDS LIGHT FROM E.				
1st Reading	0655 / 0.02	0700 / 0.00	0705 / 0.00	0710 / 0.00	SEE MAP
2nd Reading	0805 / 0.10	0800 / 0.00	0800 / 0.63	0800 / 0.00	
3rd Reading	0855 / 0.00	0850 / 0.29	0850 / 0.24	0850 / 0.00	
4th Reading	0940 / 0.00	0945 / 0.24	0945 / 0.00	0945 / 0.00	
5th Reading	1035 / 0.00	1040 / 0.00	1040 / 0.00	1040 / 0.00	CHANGE IN WIND DIRECTION S/SW
6th Reading	1100 / 0.00	1105 / 0.00	1110 / 0.00	1115 / 0.00	
7th Reading	1205 / 0.00	1205 / 0.00	1210 / 0.00	1210 / 0.00	SEE MAP
8th Reading	1300 / 0.00	1305 / 0.00	1305 / 0.00	1310 / 0.00	
9th Reading	1400 / 0.00	1400 / 0.00	1405 / 0.00	1405 / 0.00	
10th Reading					
LOCATION Comments	S. SIDE OF BLDG. ON FENCE (UW)	NE. SIDE OF BLDG. ON FENCE (DW)	N. SIDE OF (DW) BLDG. ON FENCE	NW SIDE OF (DW) BLDG. ON FENCE	

Comments:

SAMPLES PULLED DUE TO RAIN STORM

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 4

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 95499]-[S 20]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/15/96

AML NUMBER-----VALUE-----UNITS-----

8535309	051096-04	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	E SIDE OF BUILDING (DW)
	MASS:	4.5 ug
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	7.1 ug/M3
	AIR VOLUME:	636 LITERS
	ANALYST:	Earl Callender
8535310	051096-05	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	N SIDE OF BUILDING (DW)
	MASS:	Less than quantitation limit.
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	Less than quantitation limit.
	QUANTITATION LIMIT:	3.2 ug/M3
	AIR VOLUME:	636 LITERS
	ANALYST:	Earl Callender
8535311	051096-06	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	NE SIDE OF BUILDING (DW)
	MASS:	Less than quantitation limit.
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	Less than quantitation limit.
	QUANTITATION LIMIT:	3.2 ug/M3
	AIR VOLUME:	636 LITERS
	ANALYST:	Earl Callender

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/14/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/15/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/15/96 233 S. WACKER DRIVE
WORK ORDER: 122561 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8535306 051096-01 BLANK
1592 LEAD (7439-92-1)
MASS: 3.4 ug
QUANTITATION LIMIT: 2.0 ug
NOTES: This blank has not been
subtracted from the samples.
ANALYST: Earl Callender

8535307 051096-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8535308 051096-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SW SIDE OF BUILDING (UW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.1 ug/M3
AIR VOLUME: 648 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/14/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/16/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/16/96 233 S. WACKER DRIVE
WORK ORDER: 122562 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8535312 96-5-92 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-10-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8535313 96-5-97 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-10-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8535314 96-5-78 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: SW SIDE OF BUILDING (WW)
DATE COLLECTED: 5-10-96
MASS: 0.042 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.092 mg/M3
AIR VOLUME: 459 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/15/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 392]-[S 21]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/16/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on
information (i.e. air volumes, exposure times, areas)
provided by the client.

Respirable dust is determined by gravimetric procedure
using NIOSH method 0600.

Respirable dust is calculated as the total mass of
particulate found on the filter on analysis, and is
not compound specific. Particulate not otherwise
specified (i.e. not having a specific standard or
PEL associated with the material) has an OSHA
permissible exposure limit (PEL) of 5 mg/M3 as an 8
hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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INCLUDING REQUESTS FOR SUPPLIES, CALL
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[P 3066]-[S 23]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/16/96

AML NUMBER-----VALUE-----UNITS-----

8535315	96-5-83	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	E SIDE OF BUILDING (DW)
	DATE COLLECTED:	5-10-96
	MASS:	1.06 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	2.35 mg/M3
	AIR VOLUME:	451 LITERS
	ANALYST:	Maria Marino
8535316	96-5-84	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	N SIDE OF BUILDING (DW)
	DATE COLLECTED:	5-10-96
	MASS:	Less than Detection Limit.
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	Less than Detection Limit.
	DETECTION LIMIT:	0.023 mg/M3
	AIR VOLUME:	451 LITERS
	ANALYST:	Maria Marino
8535317	96-5-85	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	NE SIDE OF BUILDING (DW)
	DATE COLLECTED:	5-10-96
	MASS:	0.014 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.031 mg/M3
	AIR VOLUME:	451 LITERS
	ANALYST:	Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

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RELEASED : 05/15/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/15/96 233 S. WACKER DRIVE
WORK ORDER: 122563 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8535328 051196-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8535329 051196-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8535330 051196-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION:
SW SIDE OF SMOKESTACK W END OF FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 5.7 ug/M3
AIR VOLUME: 355 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/10/96

Client: CITY OF CHICAGO

Day of the week: FRIDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

5593 M

Sample	2467	2466	2880	2876	
Location	SW SIDE OF BLDG. ON PLATFORM (UN)	E. SIDE OF BLDG. ON PILE ACROSS PEARLA ST. (DN)	N. SIDE OF BLDG. ON FENCE (DN)	NE SIDE OF BLDG. ON FENCE (DN)	
WEATHER CONDITIONS	OVERCAST, ~60°F, OCCASIONAL SPRINKLES, HUMID, WIND FROM SW				
1st Reading	0700 / 0.00	0705 / 0.02	0710 / 0.00	0715 / 0.00	
2nd Reading	0805 / 0.00	0805 / 0.39	0810 / 0.00	0810 / 0.00	
3rd Reading	0910 / 0.00	0915 / 0.08	0915 / 0.00	0915 / 0.00	
4th Reading	1030 / 0.00	1035 / 0.29	1035 / 0.00	1035 / 0.00	
5th Reading	1110 / 0.00	1120 / 0.00	1120 / 0.02	1120 / 0.00	
6th Reading	—	—	—	—	RAIN
7th Reading	1320 / 0.02	1335 / 0.10	1335 / 0.46	1335 / 0.00	
8th Reading	1420 / 0.00	1425 / 0.96	1425 / 0.36	1425 / 0.10	
9th Reading	1520 / 0.00	1520 / 0.74	1525 / 0.46	1525 / 0.17	
10th Reading	1640 / 0.02	1645 / 1.09	1645 / 0.71	1645 / 0.09	
LOCATION - Comments	N. SIDE OF (UN) BLDG. ON FENCE	SE SIDE OF BLDG. ON FENCE	S. SIDE OF BLDG. ON FENCE (DN)	SW. SIDE OF BLDG. ON FENCE	

Comments:

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available
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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/15/96

AML NUMBER-----VALUE-----UNITS-----

8535334 051196-07 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION:
SE SIDE OF BUIDING, E END OF FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.5 ug/M3
AIR VOLUME: 588 LITERS
ANALYST: Earl Callender

8535335 051196-08 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION:
S SIDE OF BUIDING, S SIDE OF FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.5 ug/M3
AIR VOLUME: 588 LITERS
ANALYST: Earl Callender

8535336 051196-09 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION:
SW SIDE OF BUIDING, S SIDE OF FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.5 ug/M3
AIR VOLUME: 588 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/15/96

AML NUMBER-----VALUE-----UNITS-----

8535331 051196-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION:
S SIDE OF SMOKESTACK NEAR W END OF FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 5.7 ug/M3
AIR VOLUME: 355 LITERS
ANALYST: Earl Callender

8535332 051196-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION:
S SIDE OF SMOKESTACK NEAR E END OF FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 5.7 ug/M3
AIR VOLUME: 355 LITERS
ANALYST: Earl Callender

8535333 051196-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION:
SE SIDE OF SMOKESTACK E END OF FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 5.7 ug/M3
AIR VOLUME: 355 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/14/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/16/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/16/96 233 S. WACKER DRIVE
WORK ORDER: 122576 CHICAGO, IL
60606

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER-----VALUE-----UNITS-----

8535318 96-5-113 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-11-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8535319 96-5-64 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-11-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8535320 96-5-73 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: SW SIDE OF SMOKE STACK, W. END OF FENCE, DW
DATE COLLECTED: 5-11-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.040 mg/M3
AIR VOLUME: 252 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 4

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/15/96

AML NUMBER-----VALUE-----UNITS-----

8535337 051196-10 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION:
W SIDE OF BUIDING, W SIDE OF FENCE (UW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.5 ug/M3
AIR VOLUME: 588 LITERS
ANALYST: Earl Callender

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 392]-[S 22]

Ira D. Godwin, M.D.
Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/16/96

AML NUMBER-----VALUE-----UNITS-----

8535324 96-5-70 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
SE SIDE OF BUILDING, E. SIDE OF FENCE, DW
DATE COLLECTED: 5-11-96
MASS: 0.019 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.046 mg/M3
AIR VOLUME: 417 LITERS
ANALYST: Maria Marino

8535325 96-5-65 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
S. SIDE OF BUILDING, S. SIDE OF FENCE, DW
DATE COLLECTED: 5-11-96
MASS: 0.035 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.084 mg/M3
AIR VOLUME: 417 LITERS
ANALYST: Maria Marino

8535326 96-5-71 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
SW SIDE OF BUILDING, S. SIDE OF FENCE, DW
DATE COLLECTED: 5-11-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 417 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/16/96

AML NUMBER-----VALUE-----UNITS-----

8535321 96-5-103 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
S. SIDE OF SMOKE STACK NEAR W. END OF FENCE, DM
DATE COLLECTED: 5-11-96
MASS: 0.177 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.702 mg/M3
AIR VOLUME: 252 LITERS
ANALYST: Maria Marino

8535322 96-5-82 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
S. SIDE OF SMOKE STACK NEAR E. END OF FENCE, DM
DATE COLLECTED: 5-11-96
MASS: 0.016 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.063 mg/M3
AIR VOLUME: 252 LITERS
ANALYST: Maria Marino

8535323 96-5-86 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
SE SIDE OF SMOKE STACK, E. END OF FENCE, DM
DATE COLLECTED: 5-11-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.040 mg/M3
AIR VOLUME: 252 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 05/11/96

Client: CITY OF CHICAGO

Day of the week: SATURDAY

DUTCHBOY / IH SITES

Sampled by: RUDY ANGELOCCO

SS93 m

Sample	2466	2880	2876	2467	
Location	SW SIDE OF SMOKESTACK	S. SIDE OF SMOKESTACK	S. SIDE OF SMOKESTACK	SE SIDE OF SMOKESTACK	OVERCAST 40°F, WIND
	W. END OF RR FENCE	NEAR W. END OF RR FENCE	NEAR E. END OF RR FENCE	E. END OF RR FENCE	FROM NNW 10-12 mph
	DURING DEMOLITION, DW	DURING DEMOLITION, DW	DURING DEMOLITION	DURING DEMOLITION	SMOKESTACK FELL AT 0705
1st Reading	0607/0.03	0609/0.04	0612/0.03	0615/0.01	INTERMITTENT
2nd Reading	0710/0.15	0713/1.00	0716/0.05	0719/0.03	HOWEVER
3rd Reading	0900/0.43	0903/0.28	0906/0.03	0909/0.05	OVERCAST
4th Reading	1000/0.44	1003/0.36	1006/0.07	1009/0.03	50°F, WIND
5th Reading	1100/0.41	1103/0.23	1106/0.00	1109/0.00	FROM NNW 10-12 mph
6th Reading	1140/0.46	1143/0.27	1146/0.00	11:49/0.15	
7th Reading	1230/0.41	1233/0.36	1236/0.00	12:39/0.00	
8th Reading	1305/0.44	1308/0.29	1311/0.00	1314/0.00	
9th Reading					
10th Reading					
Comments	SE SIDE OF BULD E. SIDE FENCE	S. SIDE OF BULD S. SIDE FENCE	SW SIDE OF B. S. SIDE FENCE	W. SIDE OF B. W. SIDE FENCE	DUTCH BOY

Comments:

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 4
RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/16/96

AML NUMBER-----VALUE-----UNITS-----

8535327 96-5-110 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
W. SIDE OF BUILDING, W. SIDE OF FENCE, UN
DATE COLLECTED: 5-11-96
MASS: 0.019 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.046 mg/M3
AIR VOLUME: 417 LITERS
ANALYST: Maria Marino

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON
DIRECTOR, IND. HYGIENE
FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 3066]-[S 24]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536213 051396-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE OF BLDG ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.8 ug/M3
AIR VOLUME: 720 LITERS
ANALYST: Luis Rossi

8536214 051396-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SW OF BLDG ON PLATFORM (UW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.0 ug/M3
AIR VOLUME: 684 LITERS
ANALYST: Luis Rossi

8536215 051396-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: E. OF BLDG ON POLE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.8 ug/M3
AIR VOLUME: 720 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/17/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/20/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/20/96 233 S. WACKER DRIVE
WORK ORDER: 122738 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8536210 051396-01 FLD BLNK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8536211 051396-01 FLD BLNK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8536212 051396-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: N. OF BLDG ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.8 ug/M3
AIR VOLUME: 720 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

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RELEASED : 05/20/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/20/96 233 S. WACKER DRIVE
WORK ORDER: 122746 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8536228 96-5-59 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-13-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8536229 96-5-69 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: FIELD BLANK
DATE COLLECTED: 5/13/96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8536230 96-5-55 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: N. OF BLDG ON FENCE (DW)
DATE COLLECTED: 5-13-96
MASS: 0.029 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.057 mg/M3
AIR VOLUME: 510 LITERS
ANALYST: Grace Borders

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 101711]-[S 26]

Ira D. Godwin, M.D.
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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/18/96 RECEIVED : 05/18/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

Respirable dust is determined by gravimetric procedure
using NIOSH method 0600.

Respirable dust is calculated as the total mass of
particulate found on the filter on analysis, and is
not compound specific. Particulate not otherwise
specified (i.e. not having a specific standard or
PEL associated with the material) has an OSHA
permissible exposure limit (PEL) of 5 mg/M3 as an 8
hour time weighted average (TWA).

The calculation of analyte concentrations is based on
information (i.e. air volumes, exposure times, areas)
provided by the client.

*** FINAL REPORT ***

BRYAN MASON

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[P 10171]-[S 29]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/18/96 RECEIVED : 05/18/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536231	96-5-62	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	NE OF BLDG ON FENCE (DW)
	DATE COLLECTED:	5-13-96
	MASS:	0.041 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.080 mg/M3
	AIR VOLUME:	510 LITERS
	ANALYST:	Grace Borders
8536232	96-5-63	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	SW OF BLDG ON PLATFORM (DW)
	DATE COLLECTED:	5-13-96
	MASS:	0.021 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.043 mg/M3
	AIR VOLUME:	485 LITERS
	ANALYST:	Grace Borders
8536233	96-5-68	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	E OF BLDG. ON POLE (DW)
	DATE COLLECTED:	5-13-96
	MASS:	0.020 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.039 mg/M3
	AIR VOLUME:	510 LITERS
	ANALYST:	Grace Borders

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

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RELEASED : 05/20/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/20/96 233 S. WACKER DRIVE
WORK ORDER: 122739 CHICAGO , IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8536216 051496-01 FLD BLNK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8536217 051496-02 FLD BLNK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8536218 051496-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NW OF BLDG ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug/M3
AIR VOLUME: 1008 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/13/46

Client: CITY OF CHICAGO

Day of the week: MONDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

5593 M

Sample	2876	2880	2467	2466	
Location	N. OF BLDG. ON FENCE	NE. OF BLDG. ON FENCE	SW OF BLDG. ON PLATFORM	E. OF BLDG. ON POLE ON E. SIDE OF PEORIA ST. (DW)	
	(DW)	(DW)	(UW)		
WEATHER CONDITIONS	COOL & CLEAR IN MORNING, OVERCAST & STORMS MID DAY, WINDS FROM S/SW @ 10 mph 40-50 °F				
1st Reading	0830 / 0.00	0835 / 0.00	0845 / 0.00	0840 / 0.00	
2nd Reading	0920 / 0.00	0920 / 0.35	0925 / 0.00	0920 / 0.21	
3rd Reading	1030 / 0.00	1030 / 0.00	1040 / 0.00	1030 / 0.21	
4th Reading	1130 / 0.00	1135 / 0.32	1140 / 0.00	1135 / 0.25	
5th Reading	1200 / 0.00	1200 / 0.00	1205 / 0.00	1200 / 0.00	
6th Reading	1330 / 0.02	1335 / 0.29	1330 / 0.00	1340 / 0.10	
7th Reading					← RAIN STORMS
8th Reading					
9th Reading					
10th Reading					
Comments					

Comments:

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536219 051496-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: N. OF BLDG ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug/M3
AIR VOLUME: 1008 LITERS
ANALYST: Luis Rossi

8536220 051496-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE OF BLDG ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug/M3
AIR VOLUME: 1008 LITERS
ANALYST: Luis Rossi

8536221 051496-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: S. OF BLDG ON PLATFORM (UW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug/M3
AIR VOLUME: 1008 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available
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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 101711]-[S 271]

Ira D. Godwin, M.D.
Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/17/96
RELEASED : 05/20/96
REPORTED : 05/20/96
WORK ORDER: 122747

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8536234 96-5-109 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-14-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8536235 96-5-116 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: FIELD BLANK
DATE COLLECTED: 5-14-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8536236 96-5-56 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NW. OF BLDG. ON FENCE (DW)
DATE COLLECTED: 5-14-96
MASS: 0.044 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.062 mg/M3
AIR VOLUME: 714 LITERS
ANALYST: Grace Borders

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.
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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536237 96-5-60 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: N. OF BLDG. ON FENCE (DW)
DATE COLLECTED: 5-14-96
MASS: 0.026 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.036 mg/M3
AIR VOLUME: 714 LITERS
ANALYST: Grace Borders

8536238 96-5-61 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NE. OF BLDG. ON FENCE (DW)
DATE COLLECTED: 5-14-96
MASS: 0.027 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.038 mg/M3
AIR VOLUME: 714 LITERS
ANALYST: Grace Borders

8536239 96-5-67 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: S. OF BLDG. ON FENCE (DW)
DATE COLLECTED: 5-14-96
MASS: 0.015 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.021 mg/M3
AIR VOLUME: 714 LITERS
ANALYST: Grace Borders

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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1-800-348-1590

[P 101711]-[S 30]

Ira D. Godwin, M.D.
Director of Laboratories

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/14/96

Client: CITY OF CHICAGO

Day of the week: TUESDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

559.3 M

Sample	2467	2876	2880	2466	
Location	NW. SIDE OF BLDG. ON FENCE	N. SIDE OF BLDG. ON FENCE	NE SIDE OF BLDG. ON FENCE	S. SIDE OF BLDG. ON PLATFORM (UW)	
	(DW)	(DW)	(DW)		
WEATHER COND.	CLEAR IN MORNING, OVERCAST IN AFTERNOON, 40°F-60°F, WINDS FROM S. @ 5-10 mph.				
1st Reading	0900 / 0.00	0900 / 0.00	0900 / 0.00	0905 / 0.00	
2nd Reading	1010 / 0.00	1010 / 0.00	1010 / 0.00	1015 / 0.00	
3rd Reading	1125 / 0.01	1125 / 0.05	1125 / 0.01	1130 / 0.00	
4th Reading	1230 / 0.00	1230 / 0.00	1230 / 0.00	1235 / 0.00	
5th Reading	1315 / 0.00	1315 / 0.03	1315 / 0.01	1320 / 0.01	
6th Reading	1420 / 0.04	1420 / 0.07	1420 / 0.03	1425 / 0.05	
7th Reading	1530 / 0.06	1530 / 0.07	1530 / 0.01	1535 / 0.05	
8th Reading	1600 / 0.08	1600 / 0.03	1600 / 0.00	1605 / 0.00	
9th Reading					
10th Reading					
Comments					

Comments:

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/17/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/20/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/20/96 233 S. WACKER DRIVE
WORK ORDER: 122737 CHICAGO , IL
60606

PROJECT NAME/JOB ID: 5593

AML NUMBER-----VALUE-----UNITS-----

8536204 051596-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8536205 051596-02 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8536206 051596-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NW OF BLDG ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.4 ug/M3
AIR VOLUME: 1476 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536207	051596-04	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	N. OF BLDG ON FENCE (DW)
	MASS:	Less than quantitation limit.
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	Less than quantitation limit.
	QUANTITATION LIMIT:	1.4 ug/M3
	AIR VOLUME:	1476 LITERS
	ANALYST:	Luis Rossi
8536208	051596-05	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	NE OF BLDG ON FENCE (DW)
	MASS:	Less than quantitation limit.
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	Less than quantitation limit.
	QUANTITATION LIMIT:	1.4 ug/M3
	AIR VOLUME:	1476 LITERS
	ANALYST:	Luis Rossi
8536209	051596-06	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	S. OF BLDG ON PLATFORM (UW)
	MASS:	Less than quantitation limit.
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	Less than quantitation limit.
	QUANTITATION LIMIT:	1.4 ug/M3
	AIR VOLUME:	1476 LITERS
	ANALYST:	Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 101711]-[S 25]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/18/96
RELEASED : 05/20/96
REPORTED : 05/20/96
WORK ORDER: 122748

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8536240 96-5-248 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-15-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8536241 96-5-253 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: FIELD BLANK
DATE COLLECTED: 5-15-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8536242 96-5-57 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NW. OF BLDG. ON FENCE (DW)
DATE COLLECTED: 5-15-96
MASS: 0.062 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.059 mg/M3
AIR VOLUME: 1046 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/18/96 RECEIVED : 05/18/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536243	96-5-58	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	N. OF BLDG. ON FENCE (DW)
	DATE COLLECTED:	5-15-96
	MASS:	0.046 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.044 mg/M3
	AIR VOLUME:	1046 LITERS
	ANALYST:	Maria Marino
8536244	96-5-254	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	NE. OF BLDG. ON FENCE (DW)
	DATE COLLECTED:	5-15-96
	MASS:	0.028 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.027 mg/M3
	AIR VOLUME:	1046 LITERS
	ANALYST:	Maria Marino
8536245	96-5-255	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	S. OF BLDG. ON PLATFORM (DW)
	DATE COLLECTED:	5-15-96
	MASS:	0.029 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.028 mg/M3
	AIR VOLUME:	1046 LITERS
	ANALYST:	Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/18/96 RECEIVED : 05/18/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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1-800-348-1590

[P 101711]-[S 311]

Ira D. Godwin, M.D.
Director of Laboratories

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/15/96

Client: CITY OF CHICAGO

Day of the week: WEDNESDAY

DUTCHBOY SITE

Sampled by: STEPHEN HENPEL

5593 M

Sample	2466	2467	2876	2880	
Location	NW. OF BLDG. ON FENCE (DW)	N. OF BLDG. ON FENCE (DW)	NE. OF BLDG. ON FENCE (DW)	S. OF BLDG. ON PLATFORM (UW)	
WEATHER COND.	COULF OVERCAST & VERY HUMID (FOG) IN AM, SAME IN PM, 50°F 60°F WINDS LIGHT FROM S.				
1st Reading	0715 / 0.00	0715 / 0.00	0715 / 0.00	0720 / 0.00	
2nd Reading	0830 / 0.43	0830 / 0.32	0830 / 0.08	0835 / 0.23	
3rd Reading	0930 / 0.42	0930 / 0.36	0930 / 0.40	0935 / 0.40	
4th Reading	1005 / 0.45	1005 / 0.36	1005 / 0.40	1010 / 0.40	
5th Reading	1120 / 0.36	1120 / 0.22	1120 / 0.25	1125 / 0.21	
6th Reading	1215 / 0.32	1215 / 0.25	1215 / 0.35	1215 / 0.22	
7th Reading	1305 / 0.27	1305 / 0.19	1305 / 0.14	1310 / 0.13	
8th Reading	1405 / 0.19	1405 / 0.15	1405 / 0.12	1410 / 0.11	
9th Reading	1510 / 0.54	1510 / 0.19	1510 / 0.12	1515 / 0.13	
10th Reading	1600 / 0.28	1600 / 0.15	1600 / 0.12	1605 / 0.13	
Comments					

Comments:

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/17/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/20/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/20/96 233 S. WACKER DRIVE
WORK ORDER: 122740 CHICAGO , IL
60606

PROJECT NAME/JOB ID: 5593 M

:

AML NUMBER-----VALUE-----UNITS-----

8536222 051696-01 FLD BLNK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8536223 051696-02 FLD BLNK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Luis Rossi

8536224 051696-03
1592 LEAD (7439-92-1) FILTER, AIR
SITE/LOCATION: NE OF BLDG ON POLE (UW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.2 ug/M3
AIR VOLUME: 936 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536225 051696-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NW OF BLDG ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.2 ug/M3
AIR VOLUME: 936 LITERS
ANALYST: Luis Rossi

8536226 051696-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: W. OF BLDG ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.2 ug/M3
AIR VOLUME: 936 LITERS
ANALYST: Luis Rossi

8536227 051696-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SW OF BLDG ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 2.2 ug/M3
AIR VOLUME: 936 LITERS
ANALYST: Luis Rossi

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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1-800-348-1590

[P 101711]-[S 28]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/18/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/20/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/20/96 233 S. WACKER DRIVE
WORK ORDER: 122749 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8536246 96-5-289 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-16-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8536247 96-5-290 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: FIELD BLANK
DATE COLLECTED: 5-16-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8536248 96-5-282 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NE. OF BLDG. ON POLE (DW)
DATE COLLECTED: 5-16-96
MASS: 0.013 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.020 mg/M3
AIR VOLUME: 663 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/18/96 RECEIVED : 05/18/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536249	96-5-283	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	NW. OF BLDG. ON W. FENCE (DW)
	DATE COLLECTED:	5-16-96
	MASS:	0.023 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.035 mg/M3
	AIR VOLUME:	663 LITERS
	ANALYST:	Maria Marino
8536250	96-5-284	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	W. OF BLDG. ON FENCE (DW)
	DATE COLLECTED:	5-16-96
	MASS:	0.024 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.036 mg/M3
	AIR VOLUME:	663 LITERS
	ANALYST:	Maria Marino
8536251	96-5-285	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	SW. OF BLDG. ON W. FENCE (DW)
	DATE COLLECTED:	5-16-96
	MASS:	0.032 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.048 mg/M3
	AIR VOLUME:	663 LITERS
	ANALYST:	Maria Marino

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
Telephone: (703) 802-6900
Age and sex dependent reference ranges are printed when available
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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/18/96 RECEIVED : 05/18/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 10171]-[S 32]

Ira D. Godwin, M.D.
Director of Laboratories

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/16/96

Client: CITY OF CHICAGO

Day of the week: THURSDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

5593 M

Sample	2466	2467	2876	2880	
Location	NE. OF BLDG.	W. OF BLDG. ON FENCE	SW. OF BLDG. IN FENCE	S OF BLDG. ON FENCE	
	ON Pylon ALONG PEORIA ST. (UW)	(DW)	(DW)	(DW)	
WEATHER	~50°F, OVERCAST WITH OCCASIONAL SPRINKLES, HUMID (FOG), LIGHT WINDS FROM NE				
1st Reading	0705 / 0.00	0710 / 0.00	0710 / 0.00	0720 / 0.00	
2nd Reading	0730 / 0.32	0730 / 0.58	0730 / 0.26	0735 / 0.21	SPRINKLES
3rd Reading	—	—	—	—	STEADY RAIN 0815-0900
4th Reading	1140 / 0.50	1140 / 0.26	1140 / 0.41	1145 / 0.47	
5th Reading	1230 / 0.51	1230 / 0.30	1230 / 0.43	1230 / 0.51	
6th Reading	1320 / 0.39	1320 / 0.26	1320 / 0.23	1320 / 0.29	
7th Reading	1430 / 0.21	1435 / 0.30	1435 / 0.32	1435 / 0.38	
8th Reading	1530 / 0.26	1535 / 0.22	1535 / 0.13	1535 / 0.30	
9th Reading	1620 / 0.21	1620 / 0.18	1620 / 0.19	1625 / 0.22	
10th Reading	1700 / 0.17	1705 / .22	1705 / .15	1705 / .18	
Comments					

Comments: WEATHER IS VERY HUMID AND IS EXPECTED TO BE THE CAUSE OF HIGHER READINGS. NO VISIBLE DUST IS OBSERVED DUE TO DAMP & WET CONDITIONS.

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/21/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/22/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/22/96 233 S. WACKER DRIVE
WORK ORDER: 122896 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8536867 051796-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8536868 051796-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8536869 051796-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE OF BUILDING ON N FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.6 ug/M3
AIR VOLUME: 1,284 LITERS
ANALYST: Earl Callender

8536870 051796-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: N OF BUILDING ON FENCE (DW)
MASS: 2.2 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 1.7 ug/M3
AIR VOLUME: 1,284 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/22/96

AML NUMBER-----VALUE-----UNITS-----

8536871 051796-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NW OF BUILDING ON FENCE (DW)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.6 ug/M3
AIR VOLUME: 1,284 LITERS
ANALYST: Earl Callender

8536872 051796-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: S OF BUILDING ON PLATFORM (UW)
MASS: 22.8 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 18.1 ug/M3
AIR VOLUME: 1,260 LITERS
ANALYST: Earl Callender

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL

1-800-348-1590

[P 15561]-[S 33]

Ira D. Godwin, M.D.
Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 & 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/21/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/27/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/27/96 233 S. WACKER DRIVE
WORK ORDER: 122900 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8536885 96-5-273 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-17-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8536886 96-5-295 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-17-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8536887 96-5-281 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NE OF BUILDING ON N FENCE (DW)
DATE COLLECTED: 5-17-96
MASS: 0.047 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.052 mg/M3
AIR VOLUME: 910 LITERS
ANALYST: Grace Borders

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/27/96

AML NUMBER-----VALUE-----UNITS-----

8536888	96-5-286	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	N OF BUILDING ON FENCE (DW)
	DATE COLLECTED:	5-17-96
	MASS:	0.038 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.041 mg/M3
	AIR VOLUME:	910 LITERS
	ANALYST:	Grace Borders
8536889	96-5-287	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	NW OF BUILDING ON N FENCE (DW)
	DATE COLLECTED:	5-17-96
	MASS:	0.018 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.020 mg/M3
	AIR VOLUME:	910 LITERS
	ANALYST:	Grace Borders
8536890	96-5-288	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	S OF BUILDING ON PLATFORM (UW)
	DATE COLLECTED:	5-17-96
	MASS:	0.023 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.026 mg/M3
	AIR VOLUME:	893 LITERS
	ANALYST:	Grace Borders

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/27/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

Respirable dust is determined by gravimetric procedure
using NIOSH method 0600.

Respirable dust is calculated as the total mass of
particulate found on the filter on analysis, and is
not compound specific. Particulate not otherwise
specified (i.e. not having a specific standard or
PEL associated with the material) has an OSHA
permissible exposure limit (PEL) of 5 mg/M3 as an 8
hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

242151-LS 381

Ira D. Godwin, M.D.
Director of Laboratories

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/17/96

Client: CITY OF CHICAGO

Day of the week: FRIDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

5593 M

Sample	2466	2467	2876	2880	
Location	NE. OF BLDG.	N. OF BLDG. ON FENCE	NN OF BLDG. ON N. FENCE	S. OF BLDG. ON PLATFORM	
	ON N. FENCE (DW)	(DW)	(DW)	(UN)	
Weather	FOGGY & 55°F UPON ARRIVAL, WARMING & CLEARING, WINDS FROM S @ 5-10 mph.				
1st Reading	0705 / 0.10	0705 / 0.19	0705 / 0.04	0710 / 0.10	
2nd Reading	0815 / 0.39	0815 / 0.33	0815 / 0.28	0820 / 0.39	
3rd Reading	0920 / 0.05	0920 / 0.09	0920 / 0.07	0930 / 0.00	
4th Reading	1020 / 0.09	1020 / 0.04	1020 / 0.02	1025 / 0.00	
5th Reading	1115 / 0.01	1115 / 0.00	1120 / 0.03	1120 / 0.00	
6th Reading	1220 / 0.05	1220 / 0.02	1220 / 0.00	1225 / 0.00	
7th Reading	1310 / 0.03	1310 / 0.00	1310 / 0.00	1315 / 0.00	
8th Reading	1425 / 0.00	1425 / 0.00	1425 / 0.25	1430 / 0.00	
9th Reading	1530 / 0.10	1530 / 0.18	1530 / 0.12	1535 / 0.00	
10th Reading	1620 / 0.00	1620 / 0.00	1620 / 0.00	1600 / 0.00	
Comments					

Comments:

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/21/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/22/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/22/96 233 S. WACKER DRIVE
WORK ORDER: 122899 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8536879 051896-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8536880 051896-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8536881 051896-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE OF BUILDING ACROSS STREET
MASS: 2.6 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 2.5 ug/M3
AIR VOLUME: 1,056 LITERS
ANALYST: Earl Callender

8536882 051896-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: N OF BUILDING ON FENCE
MASS: 3.7 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 3.5 ug/M3
AIR VOLUME: 1,056 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/22/96

AML NUMBER-----VALUE-----UNITS-----

8536883 051896-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NW OF BUILDING ON FENCE
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.9 ug/M3
AIR VOLUME: 1,056 LITERS
ANALYST: Earl Callender

8536884 051896-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SOUTH OF BUILDING ON PLATFORM
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.9 ug/M3
AIR VOLUME: 1,056 LITERS
ANALYST: Earl Callender

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 155611]-[S 34]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/21/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/27/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/27/96 233 S. WACKER DRIVE
WORK ORDER: 122898 CHICAGO, IL 60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8536873 96-5-278 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-18-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8536874 96-5-280 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-18-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8536875 96-5-259 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: NW OF BUILDING ON FENCE
DATE COLLECTED: 5-18-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.014 mg/M3
AIR VOLUME: 748 LITERS
ANALYST: Don Johnsey

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/27/96

AML NUMBER-----VALUE-----UNITS-----

8536876	96-5-256	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	N OF BUILDING ON FENCE
	DATE COLLECTED:	5-18-96
	MASS:	0.061 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.082 mg/M3
	AIR VOLUME:	748 LITERS
	ANALYST:	Grace Borders
8536877	96-5-257	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	NE OF BUILDING ACROSS STREET
	DATE COLLECTED:	5-18-96
	MASS:	0.065 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.087 mg/M3
	AIR VOLUME:	748 LITERS
	ANALYST:	Grace Borders
8536878	96-5-263	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	SOUTH OF BUILDING ON PLATFORM
	DATE COLLECTED:	5-18-96
	MASS:	0.052 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.075 mg/M3
	AIR VOLUME:	748 LITERS
	ANALYST:	Grace Borders

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/27/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

Respirable dust is determined by gravimetric procedure
using NIOSH method 0600.

Respirable dust is calculated as the total mass of
particulate found on the filter on analysis, and is
not compound specific. Particulate not otherwise
specified (i.e. not having a specific standard or
PEL associated with the material) has an OSHA
permissible exposure limit (PEL) of 5 mg/M3 as an 8
hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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1-800-348-1590

24215]-[S 37]

Ira D. Godwin, M.D.
Director of Laboratories

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5-18-96

Client: City of Chicago

Day of the week: Saturday

Dutchboy Site

Sampled by: Paul Cairo

5593 m

Sample	2466	2880	2879	2497	
Location	NW of Bldg on fence	N of Bldg on fence	NE of Bldg across street on pole	South of Bldg. on platform	
	(down wind)	(down wind)	(down wind)	(up wind)	
1st Reading	.03	.01	.00	.01	
2nd Reading	.00	.00	.00	.01	
3rd Reading	.01	.01	.00	.02	
4th Reading	.01	.18	.08	.06	
5th Reading	.01	.04	.07	.10	
6th Reading	.00	.00	.00	.10	
7th Reading	.01	.02	.00	.15	
8th Reading	.01	.02	.00	.06	
9th Reading	.01	.02	.00	.01	
10th Reading	.01	.00	.00	.01	
Comments					

Comments:

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

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RECEIVED : 05/21/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 05/22/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 05/22/96 233 S. WACKER DRIVE
WORK ORDER: 122901 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8536891 052096-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8536892 052096-02 FILTER, AIR
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Earl Callender

8536893 052096-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NE OF BUILDING ON E FENCE (DW)
MASS: 8.6 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 5.5 ug/M3
AIR VOLUME: 1,560 LITERS
ANALYST: Earl Callender

8536894 052096-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: E OF BUILDING ON FENCE (DW)
MASS: 3.3 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 2.1 ug/M3
AIR VOLUME: 1,560 LITERS
ANALYST: Earl Callender

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/22/96

AML NUMBER-----VALUE-----UNITS-----

8536895 052096-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SE OF BUILDING ON E FENCE (OW)
MASS: 3.2 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 2.5 ug/M3
AIR VOLUME: 1,560 LITERS
ANALYST: Earl Callender

8536896 052096-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: W OF BUILDING ON PLATFORM (UW)
MASS: 2.0 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 1.3 ug/M3
AIR VOLUME: 1,560 LITERS
ANALYST: Earl Callender

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 15561]-[S 35]

Ira D. Godwin, M.D.
Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 1084 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/21/96
RELEASED : 05/25/96
REPORTED : 05/26/96
WORK ORDER: 122903

17551 HARZA ENVIRONMENTAL SVCS. INC.
RUDY ANGELUCCI/SEARS TOWER
233 S. WACKER DRIVE
CHICAGO , IL
60606

PROJECT NAME/. OB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8536897 96-1-275 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-20-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8536898 96-5-276 FILTER, AIR
1687 RESPIRABLE DUST
DATE COLLECTED: 5-20-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8536899 96-1-258 FILTER, AIR
1687 RESPIRABLE DUST
SITE /LOCATION: NE OF BUILDING ON E FENCE (DW)
DATE COLLECTED: 5-20-96
MASS: 0.021 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.019 mg/M3
AIR VOLUME: 1,105 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.
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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/25/96

AML NUMBER-----VALUE-----UNITS-----

8536900	96-5-262	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	E OF BUILDING ON FENCE (DW)
	DATE COLLECTED:	5-20-96
	MASS:	0.014 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.013 mg/M3
	AIR VOLUME:	1,105 LITERS
	ANALYST:	Maria Marino
8536901	96-5-267	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	SE OF BUILDING ON E FENCE (DW)
	DATE COLLECTED:	5-20-96
	MASS:	0.019 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.017 mg/M3
	AIR VOLUME:	1,105 LITERS
	ANALYST:	Maria Marino
8536902	96-5-269	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	W OF BUILDING ON PLATFORM
	DATE COLLECTED:	5-20-96
	MASS:	0.011 mg
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	0.010 mg/M3
	AIR VOLUME:	1,105 LITERS
	ANALYST:	Maria Marino

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/25/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

The calculation of analyte concentrations is based on
information (i.e. air volumes, exposure times, areas)
provided by the client.

Respirable dust is determined by gravimetric procedure
using NIOSH method 0600.

Respirable dust is calculated as the total mass of
particulate found on the filter on analysis, and is
not compound specific. Particulate not otherwise
specified (i.e. not having a specific standard or
PEL associated with the material) has an OSHA
permissible exposure limit (PEL) of 5 mg/M3 as an 8
hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 23271]-[S 36]

Ira D. Godwin, M.D.
Director of Laboratories

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/20/96

Client: CITY OF CHICAGO

Day of the week: MONDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

5593 M

Sample	2466	2880	2876	2467	
Location	NE OF BLDG. ON E. FENCE	E. OF BLDG. ON FENCE	SE OF BLDG. ON E. FENCE	W. OF BLDG. ON PLATFORM	
	(DW)	(DW)	(DW)	(UW)	
WEATHER	WIND FROM WEST UPON ARRIVAL, ~65°F, OVERCAST, WINDS CHANGE TO NE/E BY MIDMOR THEN BACK TO W.				
1st Reading	0910 / 0.00	0710 / 0.00	0710 / 0.00	0720 / 0.00	
2nd Reading	0815 / 0.38	0815 / 0.17	0815 / 0.10	0820 / 0.06	
3rd Reading	0930 / 0.01	0930 / 0.11	0935 / 0.00	0940 / 0.11	WIND CHANGES TO NE/E
4th Reading	1030 / 0.00	1030 / 0.22	1030 / 0.02	1035 / 0.00	WIND CHANGES BACK TO W.
5th Reading	1130 / 0.10	1130 / 0.47	1130 / 0.07	1135 / 0.06	
6th Reading	1220 / 0.00	1220 / 0.66	1220 / 0.00	1220 / 0.00	
7th Reading	1300 / 0.13	1300 / 0.62	1300 / 0.10	MONITOR DEAD	
8th Reading	1430 / 0.06	1430 / 0.42	1430 / 0.00		
9th Reading	1520 / 0.09	1520 / 0.46	1520 / 1.92		
10th Reading	1600 / 0.03	1600 / 0.05	1600 / 0.08	↓	
LOCATIONS Comments	S. OF BLDG ON FENCE (DW)	SW OF BLDG ON FENCE (DW)	SE OF BLDG. ON FENCE (DW)		

Comments:

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/30/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 06/04/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 06/04/96 233 S. WACKER DRIVE
WORK ORDER: 123311 CHICAGO , IL
60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----	VALUE-----	UNITS-----
-----------------	------------	------------

8538984 052196-01 FIELD BLNK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Don Johnsey

8538985	052196-02	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	FIELD BLANK
	MASS:	Less than quantitation limit.
	QUANTITATION LIMIT:	2.0 ug
	ANALYST:	Don Johnsey

8538986	052196-03	FILTER, AIR
1592	LEAD (7439-92-1)	
	SITE/LOCATION:	E. OF BLDG ON FENCE
	MASS:	2.9 ug
	QUANTITATION LIMIT:	2.0 ug
	CONCENTRATION:	2.1 ug/M3
	AIR VOLUME:	1356 LITERS
	ANALYST:	Don Johnsey

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/04/96

AML NUMBER-----VALUE-----UNITS-----

8538987 052196-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SE OF BLDG ON S. FENCE
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1356 LITERS
ANALYST: Don Johnsey

8538988 052196-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SE OF BLDG ON E. FENCE
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1344 LITERS
ANALYST: Don Johnsey

8538989 052196-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: W/NW OF BLDG ON PLATFORM
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.3 ug/M3
AIR VOLUME: 612 LITERS
ANALYST: Don Johnsey

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/04/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Analysis was performed via flame atomic absorption spectrophotometry (FLAA) techniques.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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INCLUDING REQUESTS FOR SUPPLIES, CALL
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[P 39674]-[S 39]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/30/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 06/03/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 06/03/96 233 S. WACKER DRIVE
WORK ORDER: 123313 CHICAGO, IL 60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8538996 96-5-384 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-21-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8538997 96-5-391 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: FIELD BLANK
DATE COLLECTED: 5-21-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Grace Borders

8538998 96-5-272 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: E. OF BLDG ON FENCE (DN)
DATE COLLECTED: 5-21-96
MASS: 0.025 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.026 mg/M3
AIR VOLUME: 961 LITERS
ANALYST: Grace Borders

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/03/96

AML NUMBER-----VALUE-----UNITS-----

8538999 96-5-274 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
SE. OF BLDG ON SOUTH FENCE (DW)
DATE COLLECTED: 5-21-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.011 mg/M3
AIR VOLUME: 961 LITERS
ANALYST: Grace Borders

8539000 96-5-277 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION:
SE. OF BLDG ON SOUTH FENCE (DW)
DATE COLLECTED: 5-21-96
MASS: 0.017 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.018 mg/M3
AIR VOLUME: 952 LITERS
ANALYST: Grace Borders

8539001 96-5-279 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: W/NW OF BLDG. ON PLATFORM (DW)
DATE COLLECTED: 5-21-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 434 LITERS
ANALYST: Grace Borders

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/03/96

AML NUMBER-----VALUE-----UNITS-----

8539002 96-5-270 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: W. OF I.H. SMOKESTACK (DW)
DATE COLLECTED: 5-21-96
MASS: 0.010 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.027 mg/M3
AIR VOLUME: 374 LITERS
ANALYST: Grace Borders

8539003 96-5-271 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: S. OF I.H. SMOKESTACK (DW)
DATE COLLECTED: 5-21-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.027 mg/M3
AIR VOLUME: 374 LITERS
ANALYST: Grace Borders

NOTATIONS

Respirable dust is determined by gravimetric procedure
using NIOSH method 0600.

Respirable dust is calculated as the total mass of
particulate found on the filter on analysis, and is
not compound specific. Particulate not otherwise
specified (i.e. not having a specific standard or
PEL associated with the material) has an OSHA
permissible exposure limit (PEL) of 5 mg/M3 as an 8
hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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[P 39674]-[S 41]

Ira D. Godwin, M.D.
Director of Laboratories

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/21/96

Client: CITY OF CHICAGO

Day of the week: TUESDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

5593 M

Sample	2467	2880	2466	2876	
Location	E. SIDE OF BLDG. ON FENCE	SE. SIDE OF BLDG. ON	SE. SIDE OF BLDG. ON	NW OF BLDG. ON PLATFORM	
	(DW)	E. FENCE (DW)	S. FENCE (DW)	(RW)	
1st Reading	0705 / 0.00	0705 / 0.00	0710 / 0.00	0715 / 0.00	
2nd Reading	0815 / 0.06	0815 / 0.07	0815 / 0.00	0820 / 0.00	
3rd Reading	0920 / 0.15	0920 / 0.06	0925 / 0.03	0930 / 0.00	
4th Reading	1030 / 0.10	1030 / 0.02	1030 / 0.00	1035 / 0.00	
5th Reading	1130 / 0.05	1130 / 0.07	1130 / 0.03	1130 / 0.00	
6th Reading	1230 / 0.09 0.09	1230 / 0.03	1230 / 0.01	—	
7th Reading	1340 / 0.04	1340 / 0.06	1340 / 0.00	1300 / 0.00	
8th Reading	1420 / 0.04	1420 / 0.02	1410 / 0.00	1410 / 0.00	
9th Reading	1550 / 0.00	1550 / 0.00	1550 / 0.00	1530 / 0.00	
10th Reading	1630 / 0.03	1630 / 0.03	1640 / 0.00	1640 / 0.00	
Comments			E. OF SMOKESTACK REMAINS (DW)	SE. OF SMOKESTACK REMAINS (DW)	

Comments:

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/30/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 06/04/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 06/04/96 233 S. WACKER DRIVE
WORK ORDER: 123312 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8538990 052296-01 FIELD BLNK BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Don Johnsey

8538991 052296-02 FIELD BLNK FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: FIELD BLANK
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Don Johnsey

8538992 052296-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: NW OF BLD. ON FENCE
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1428 LITERS
ANALYST: Don Johnsey

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/04/96

AML NUMBER-----VALUE-----UNITS-----

8538993 052296-04 FILTER, AIR
1592 LEAD (7439-92-1) ^{NE}
SITE/LOCATION: NW OF BLD. ON FENCE
MASS: 6.1 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 4.4 ug/M3
AIR VOLUME: 1416 LITERS
ANALYST: Don Johnsey

8538994 052296-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SE OF BLD. ON FENCE
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1428 LITERS
ANALYST: Don Johnsey

8538995 052296-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: SW OF BLD. ON FENCE
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1416 LITERS
ANALYST: Don Johnsey

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/04/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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[P 39674]-(S 40)

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/30/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 06/03/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 06/03/96 233 S. WACKER DRIVE
WORK ORDER: 123314 CHICAGO, IL
60606

PROJECT NAME/JOB ID: 5593 M

:

AML NUMBER-----VALUE-----UNITS-----

8539004 96-5-250 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 5-22-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8539005 96-5-251 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: FIELD BLANK
DATE COLLECTED: 5-22-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
ANALYST: Maria Marino

8539006 96-5-264 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: SE OF BLDG. ON FENCE (DW)
DATE COLLECTED: 5-22-96
MASS: 0.027 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.027 mg/M3
AIR VOLUME: 1012 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/03/96

AML NUMBER-----VALUE-----UNITS-----

8539007 96-5-265 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: SW OF BLDG. ON FENCE (DW)
DATE COLLECTED: 5-22-96
MASS: 0.042 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.042 mg/M3
AIR VOLUME: 1003 LITERS
ANALYST: Maria Marino

8539008 96-5-266 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: S. OF SMOKESTACK BASE (DW)
DATE COLLECTED: 5-22-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.013 mg/M3
AIR VOLUME: 825 LITERS
ANALYST: Maria Marino

8539009 96-5-268 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: E. OF SMOKESTACK BASE (DW)
DATE COLLECTED: 5-22-96
MASS: Less than Detection Limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.
DETECTION LIMIT: 0.013 mg/M3
AIR VOLUME: 825 LITERS
ANALYST: Maria Marino

REPORT CONTINUED ON NEXT PAGE...

AMERICAN MEDICAL LABORATORIES, INC.

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/03/96

AML NUMBER-----VALUE-----UNITS-----

8539010	96-5-261	FILTER, AIR
1687	RESPIRABLE DUST	
	SITE/LOCATION:	NE. OF SMOKESTACK BASE (DW)
	DATE COLLECTED:	5-22-96
	MASS:	Less than Detection Limit.
	DETECTION LIMIT:	0.010 mg
	CONCENTRATION:	Less than Detection Limit.
	DETECTION LIMIT:	0.013 mg/M3
	AIR VOLUME:	825 LITERS
	ANALYST:	Maria Marino

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

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1-800-348-1590

[P 39674]-[S 42]

Ira D. Godwin, M.D.
Director of Laboratories

HARZA

Consulting Engineers and Scientists

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5-22-96

Client: City of Chicago

Day of the week: Wednesday

Dutchboy site

Sampled by: Paul Caird

5593 m

Sample	2466	2467	2876	2880	
Location	SE of Bldg.	SW of Bldg.	S of Pile	East of Pile	
1st Reading	0.00	0.06	0.00	0.00	
2nd Reading	0.03	0.00	0.00	0.03	
3rd Reading	0.01	0.00	0.00	0.08	
4th Reading	0.01	0.18	0.00	0.10	
5th Reading	0.00	0.04	0.00	0.06	
6th Reading	0.00	0.00	0.00	0.08	
7th Reading	0.01	0.00	0.00	0.06	
8th Reading	0.00	0.02	0.00	0.06	
9th Reading	0.01	0.00	0.00	0.06	
10th Reading	—	0.00	—	—	
Comments					

Comments: 2876 and 2880 stop at 16:00.

2466 was dead at 16:35

RESPIRABLE DUST AIR SAMPLING RECORD

Date: 5/23/96

Client: CITY OF CHICAGO

Day of the week: THURSDAY

DUTCHBOY SITE

Sampled by: STEPHEN HEMPEL

5593 M

Sample	2466	2467	2876	2880	
Location	S. OF SMOKESTACK BASE	SE OF SMOKESTACK BASE	E. OF DUTCHBOY BLDG. ON FENCE	SE. OF DUTCHBOY BLDG. ON FENCE	
	(DW)	(DW)	(DW)	(DW)	
1st Reading	0730 / 0.00	0730 / 0.00	0740 / 0.00	0740 / 0.00	LIGHT RAIN
2nd Reading	0840 / 0.00	0840 / 0.00	0830 / 0.00	0830 / 0.00	STEADY RAIN
3rd Reading					
4th Reading					
5th Reading					
6th Reading					
7th Reading					
8th Reading					
9th Reading					
10th Reading					
Comments					

Comments:

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available
age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 06/17/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 06/21/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 06/21/96 233 S. WACKER DRIVE
WORK ORDER: 124085 CHICAGO, IL 60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8543252 061296-01 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Don Johnsey

8543253 061296-02 BLANK
1592 LEAD (7439-92-1)
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
ANALYST: Don Johnsey

8543254 061296-03 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: W. OF BLDG. ON PLATFORM
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.3 ug/M3
AIR VOLUME: 612 LITERS
ANALYST: Don Johnsey

REPORT CONTINUED ON NEXT PAGE...

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PAGE 2

RECEIVED : 06/17/96 RECEIVED : 06/17/96 RELEASED : 06/21/96

AML NUMBER-----VALUE-----UNITS-----

8543255 061296-04 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: S. OF BLDG. ON PLATFORM
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.3 ug/M3
AIR VOLUME: 612 LITERS
ANALYST: Don Johnsey

8543256 061296-05 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: E. OF BLDG. ON PLATFORM
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.3 ug/M3
AIR VOLUME: 612 LITERS
ANALYST: Don Johnsey

8543257 061296-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: N. OF BLDG. ON PLATFORM
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 3.3 ug/M3
AIR VOLUME: 612 LITERS
ANALYST: Don Johnsey

REPORT CONTINUED ON NEXT PAGE...

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PAGE 3

RECEIVED : 06/17/96 RECEIVED : 06/17/96 RELEASED : 06/21/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interim Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

Analysis was performed via flame atomic absorption spectrophotometry (FLAA) techniques.

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

*** FINAL REPORT ***

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL

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[P 84370]-[S 44]

Ira D. Godwin, M.D.
Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

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RECEIVED : 06/17/96 17551 HARZA ENVIRONMENTAL SVCS. INC.
RELEASED : 06/18/96 RUDY ANGELUCCI/SEARS TOWER
REPORTED : 06/18/96 233 S. WACKER DRIVE
WORK ORDER: 124084 CHICAGO , IL
60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8543258 96-5-375 BLANK
1687 RESPIRABLE DUST
DATE COLLECTED: 6/12/96
MASS: Less than quantitation limit.
DETECTION LIMIT: 0.010 mg
ANALYST: R. Kenneth Petrie

8543259 96-5-376 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: FIELD BLANK
DATE COLLECTED: 6/12/96
MASS: Less than quantitation limit.
DETECTION LIMIT: 0.010 mg
ANALYST: R. Kenneth Petrie

8543260 96-5-400 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: W. OF BLDG.
DATE COLLECTED: 6/12/96
MASS: Less than quantitation limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than quantitation limit.
DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 434 LITERS
ANALYST: R. Kenneth Petrie

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 06/17/96 RECEIVED : 06/17/96 RELEASED : 06/18/96

AML NUMBER-----VALUE-----UNITS-----

8543261 96-5-397 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: E. OF BLDG.
DATE COLLECTED: 6/12/96
MASS: Less than quantitation limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than quantitation limit.
DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 434 LITERS
ANALYST: R. Kenneth Petrie

8543262 96-5-394 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: S. OF BLDG.
DATE COLLECTED: 6/12/96
MASS: Less than quantitation limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than quantitation limit.
DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 434 LITERS
ANALYST: R. Kenneth Petrie

8543263 96-5-386 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: W. OF BLDG.
DATE COLLECTED: 6/12/96
MASS: Less than quantitation limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than quantitation limit.
DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 434 LITERS
ANALYST: R. Kenneth Petrie

REPORT CONTINUED ON NEXT PAGE...

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 06/17/96 RECEIVED : 06/17/96 RELEASED : 06/18/96

AML NUMBER-----VALUE-----UNITS-----

8543264 96-5-367 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: N. OF SMOKESTACK
DATE COLLECTED: 6/12/96
MASS: Less than quantitation limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than quantitation limit.
DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 434 LITERS
ANALYST: R. Kenneth Petrie

8543265 96-5-368 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: E. OF SMOKESTACK
DATE COLLECTED: 6/12/96
MASS: 0.021 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.048 mg/M3
AIR VOLUME: 434 LITERS
ANALYST: R. Kenneth Petrie

8543266 96-5-369 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: S. OF SMOKESTACK
DATE COLLECTED: 6/12/96
MASS: Less than quantitation limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than quantitation limit.
DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 434 LITERS
ANALYST: R. Kenneth Petrie

REPORT CONTINUED ON NEXT PAGE...

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PAGE 4

RECEIVED : 06/17/96 RECEIVED : 06/17/96 RELEASED : 06/18/96

AML NUMBER-----VALUE-----UNITS-----

8543267 96-5-387 FILTER, AIR
1687 RESPIRABLE DUST
SITE/LOCATION: W. OF SMOKESTACK
DATE COLLECTED: 6/12/96
MASS: Less than quantitation limit.
DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than quantitation limit.
DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 434 LITERS
ANALYST: R. Kenneth Petrie

NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

*** FINAL REPORT ***

BRYAN MASON

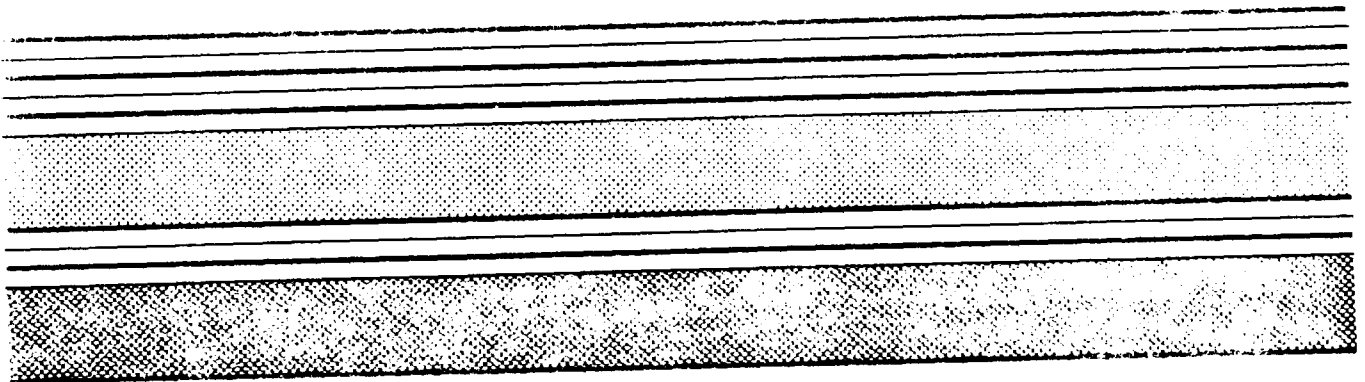
DIRECTOR, IND. HYGIENE

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[P 74389]-(S 43]

Ira D. Godwin, M.D.
Director of Laboratories

APPENDIX C



TELEPHONE LOG

Person Contacted: Several **Project:** Dutch Boy Site
Affiliation: Several **Project Number:** 5593M
Harza Representative: Rudy Angelucci **Date:** May 7, 1996
Copies To: R. Kewer, S. Hempel **Phone Number:** Several
Call Was: Received / Initiated
Subject: Perimeter Air Monitoring Laboratory Results, Notification of Lead Action Level.

Notes:

The lead action level of 25 $\mu\text{g}/\text{m}^3$ was reached and exceeded (26.1 $\mu\text{g}/\text{m}^3$) on May 2, 1996. The lead laboratory results from that day were received via fax on May 7, 1996, at approximately 12:50 p.m. The following individuals were notified on May 7, 1996 at the following times and phone numbers:

14:45	Kevin Staniel	(312) 744-3639	Spoke to Mr. Staniel.
15:03	Chester Wilson	(312) 928-6961	Spoke to Mr. Wilson.
15:11	Dionne Gilmore	(312) 821-4379	Ms. Gilmore was at work. Left a message for her to call Rudy.
15:13	Helen Henderson	(312) 264-3090	Ms. Henderson was at work. Left a message for her to call Rudy.
15:15	John Em	(312) 595-2005	Spoke to Mr. Em.
15:20	James Van der Kloot	(312) 744-9139	Spoke to Mr. Van der Kloot.
16:00	Jan Marrero	(312) 886-6543	Spoke to Ms. Marrero.